



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Humbug GNA
Sale NC-341-2026-GF9A23-01

District: N Cascade

Date: August 25, 2025

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$188,435.25	\$0.00	\$188,435.25
		Project Work:	(\$30,823.61)
		Advertised Value:	\$157,611.64



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District: N Cascade

Date: August 25, 2025

Timber Description

Location: Township 9 South, Range 6 East., Sections 1, 2, and 11 W.M.

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	14	0	98

Volume by Grade	2S	3S & 4S 6"-11"	Total
Douglas - Fir	132	809	941
Total	132	809	941

Comments: SOURCE OF POND VALUES

Pond Values Used: Local Pond Values, July 2025.

PRICING FOR ANY SPECIES THAT DOES NOT HAVE ANY VOLUME LISTED IN THE APPRAISAL
Western Hemlock and Other Conifers Stumpage Price = Pond Value minus Logging Cost: \$200.25/MBF = \$665/MBF - \$464.75/MBF

Western redcedar and Other Cedars Stumpage Price = Pond Value minus Logging Cost: \$835.25/MBF = \$1,300/MBF - \$464.75/MBF

Red Alder and Other Hardwoods Stumpage Price = Pond Value minus Logging Cost: \$105.25/MBF = \$570/MBF - \$464.75/MBF

PULP PRICE

Pulp (Conifer and Hardwood) Price = \$1/TON

OTHER COSTS (with Profit & Risk to be added)

New and Existing Temporary Road Reconstruction:

\$15,000/mile x 0.25 miles = \$3,750

Prior to wet weather season or heavy rain events, landings and temporary roads water barred:

\$1,000/season x 2 seasons = \$2,000

Temporary road subsoiled to depth of 20 inches, water bars installed, seeded, mulched and entrance blocked: \$4,000 x 0.25 miles = \$1,000

Landing subsoiled to depth of 20 inches, seeded, and application of mulch or weed-free straw: \$100/landing x 15 landings = \$1,500

Primary skid trail subsoiled to depth of 20 inches, water bars installed, seeded, mulched and entrance blocked: \$500/skid trail x 6 trails = \$3,000

Dispersed Campsite along segment B1 restoration: (flat rate) \$5,000

Intermediate support/tail trees: \$100/support x 15 supports = \$1,500

Move-In: ((\$120/hour X 1 excavator and loaded transport) + (\$50/hour x 1 pilot)) X 4 hour Move-In Cycle = \$680

Equipment Weed Wash: ((\$50/hr labor cost) X (6-hour wash time)) X 6 pieces of equipment = \$1,800

TOTAL Other Costs (with Profit and Risk added) = \$20,230

OTHER COSTS (with No Profit & Risk to be added)

Seeding and application of weed-free straw of all disturbed sites with seed provided by STATE (disposal sites and other areas determined by STATE): FLAT RATE = \$2,000

Tree Marking: 1 person x 160 hours x \$20/hour + \$200 supplies = \$3,400

TOTAL Other Costs (No Profit & Risk added) = \$5,400

IDENTIFY SLASH DISPOSAL COSTS

SLASH DISPOSAL COSTS

In-Unit Piling: (\$25/acre x 44 acres) + Pile Landing Slash: (\$50/landing x 15) = \$1,850

Firewood sorting and landing piling: \$180/landing x 15 landings = \$2,700

Covering Piles: (\$15/pile x 103 piles) + (\$50/hour x 2 covering personnel x 10 hours) = \$2,545

TOTAL Slash Disposal Costs = \$7,095

IDENTIFY ROAD MAINTENANCE COSTS

ROAD MAINTENANCE

Grader Move-in: \$1,050

Roller Move-in: \$1,050

General Road Maintenance: 3 miles x \$2,100/mile = \$6,300

TOTAL Road Maintenance: \$6,300/941 MBF = \$6.69/MBF



Timber Sale Appraisal
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District: N Cascade

Date: August 25, 2025

Logging Conditions

Combination#: 1	Douglas - Fir	77.00%
Logging System:	Track Skidder	Process: Harvester Head Delimbing
yarding distance:	Short (400 ft)	downhill yarding: No
tree size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF	
loads / day:	12	bd. ft / load: 3700
cost / mbf:	\$225.23	
machines:	Forwarder Harvester	

Combination#: 2	Douglas - Fir	23.00%
Logging System:	Cable: Small Tower <=40	Process: Harvester Head Delimbing
yarding distance:	Medium (800 ft)	downhill yarding: No
tree size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF	
loads / day:	5.5	bd. ft / load: 3700
cost / mbf:	\$365.16	
machines:	Log Loader (A) Forwarder Harvester Tower Yarder (Small)	



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Date: August 25, 2025

Logging Costs

Operating Seasons: 2.00	Profit Risk: 12%
Project Costs: \$30,823.61	Other Costs (P/R): \$20,230.00
Slash Disposal: \$7,095.00	Other Costs: \$5,400.00

Miles of Road

Road Maintenance: \$6.69

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	3.0	4.0



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Timber Sale Appraisal
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District: N Cascade

Date: August 25, 2025

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$257.41	\$6.82	\$9.33	\$106.25	\$21.50	\$48.16	\$7.54	\$2.00	\$5.74	\$464.75

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$665.00	\$200.25	\$0.00



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
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District: N Cascade

Date: August 25, 2025

Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	941	\$200.25	\$188,435.25

Gross Timber Sale Value

Recovery: \$188,435.25

Prepared By: Connor Reardon

Phone: 541-780-4586

SUMMARY OF ROAD COSTS

HUMBUG GNA PROJECT COSTS

Project No. 1 Road Improvement (includes spot rocking, dispersed camp repair)

ROAD IMPROVEMENT:

		Rocking				
Segments	Length	Pit Run 6"+	Other (endhaul/soil)	1.5"- 0" Crushed	Culverts 1.5"- 0"	Construct \$
4696 Paved	115+01					\$ -
4696 Agg.	79+39	450 cy	30 cy	179 cy		\$ 23,992.96
4696-1	3+67	30 cy		7 cy		\$ 1,460.65
Totals	198+07	480 cy	30 cy	187 cy		\$ 25,453.61
Move in Total						\$ 5,370.00

5.25 Miles

Project No 1

\$ 30,823.61

ROCK SOURCES:

Rock Totals					
Location	Size of Rock	Needed for Roads	Est to pull up from roads	Stockpile	Total to Crush
Commerical site	1.5"- 0" Crushed	187 cy			187 cy
Reclaim Rock/Soil (Pull up ~ 70%)	6" - 0"				
Other (endhaul/soil)	other		30 cy		
Commerical site	Pit run 6"+	480 cy			480 cy

TOTAL PROJECT CREDITS

\$ 30,823.61

PROJECT NO. 1

ROAD IMPROVEMENT

Sale: **Humbug GNA** Total Length (ft): **11,501.00** Road Segment: **A to B**

Notes: *No culverts to be replace, no major brushing, no ditchouts, no grading. This road segment is attached to an already sold USFS Sale: Short. In this USFS engineering package the paved section of the 4696 is to have major reconstruction. Expect road closure or delays. Project not started. USFS Rep: Michael Howard or John Piper*

ROAD IMPROVEMENT:

Quantity	Designed Cubic Yards/Station				Cost per	
Station or Acre	Dissapator 6"+	1.5"- 0"	Bedding 1.5"	Soil	Station or Acre	Sum \$
					\$ 43.00	\$ -
					\$ -	\$ -
					\$ 50.00	\$ -
					\$ 150.00	\$ -
						\$ -

SUB-TOTAL \$ -

CULVERTS:

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
				\$ -	\$ -		\$ -	\$ -	\$ -	\$ -
Total										\$ -

CPP = corrugated plastic pipe

ACSP = aluminum corrugated steel pipe

Seed/mulch (1-bales and 1-lbs seed per culvert site)

Install 6' long steel "T" post.

Install outlet dissipator.

Quantity	Seed	Cost	Sub Total	Install \$	Sum \$
	\$ 5.00	\$ 8.50	\$ -	\$ 15.00	\$ -
		\$ 8.50	\$ -	\$ 20.00	\$ -
		\$ 75.00	\$ -		\$ -
Total					\$ -

SUB-TOTAL \$ -

SURFACING:

Size	Roads	Landing	Ditch Soils	Two-way Junctions	Culvert Bedding	Turn outs	Dissipator (cy/pipe)	Total	Haul only	Cost
1.5"- 0"								cy	\$ 31.37	\$ -
other								cy	\$ 31.37	\$ -
Pit Run 6"+								cy	\$ 31.37	\$ -

Total = cy

SUB-TOTAL \$ -

GRAND TOTAL \$ -

PROJECT NO. 1
ROAD IMPROVEMENT

Sale: **Humbug GNA**

Total Length (ft) 15,878.00

Road Segment: **B to C**

ROAD IMPROVEMENT:

Road Improvement (Spot rocking/grading when needed)
Turn around improvement (as needed)
Landing Improvement/Construction (as needed)

Quantity	Designed Cubic Yards/Station				Cost per	
Station or Acre	Dissapator 6"+	1.5"- 0"	Bedding 1.5"	Soil	Station or Acre	Sum \$
79+39		1 cy			\$ 23.00	\$ 1,825.97
1		100 cy			\$ 100.00	\$ 100.00
15	30 cy				\$ 100.00	\$ 1,500.00
						\$ -
						\$ -
						\$ -
SUB-TOTAL						\$ 3,425.97

CULVERTS:

Description	Type	Size	Total	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
			Length							
1-24" x 50'	ACSP	24	0	\$ -	\$ -	1	\$ 60.00	\$ 60.00	\$ -	\$ -
Total										\$ -

CPP = corrugated plastic pipe

ACSP = aluminum corrugated steel pipe

Seed/mulch (1-bales and 1-lbs seed per culvert site)

Install 6' long steel "T" post.

Install outlet dissipator.

Quantity	Seed	Cost	Sub Total	Install \$	Sum \$
1	\$ 5.00	\$ 8.50	\$ 13.50	\$ 15.00	\$ 28.50
1		\$ 8.50	\$ 8.50	\$ 20.00	\$ 28.50
1		\$ 75.00	\$ 75.00		\$ 75.00
					\$ -

SUB-TOTAL \$ -

SURFACING:

Size	Roads	Landing	Ditch	Two-way	Culvert	Turn	Dissipator	Total	Haul only	Cost
			Soils	Junctions	Bedding	outs	(cy/pipe)			
1.5"- 0"	79 cy					100 cy		179 cy	\$ 31.37	\$ 5,626.90
other									\$ 31.37	\$ -
Pit Run 6"+		450 cy						450 cy	\$ 33.20	\$ 14,940.09
Total =								629 cy		

SUB-TOTAL \$ 20,566.99

GRAND TOTAL \$ 23,992.96

PROJECT NO. 1

ROAD IMPROVEMENT

Sale: HUMBUG GNA

Total Length (ft) 367

Road Segment: B1 to B2 (4696 SPUR 1)

ROAD IMPROVEMENT:

	Quantity	Designed Cubic Yards/Station				Cost per	
	Station or Acre	Pit Run 6"+	1.5"- 0"	Other	Soil	Station or Acre	Sum \$
Road Improvement (Grading and Brushing)	3+67		2 cy			\$ 23.00	\$ 84.41
Landing Construction/Improvement (as needed)	1	30 cy				\$ 100.00	\$ 100.00
Dispersed Camping location (rebuild)	1				30 cy	\$ 50.00	\$ 50.00
SUB-TOTAL							\$ 234.41

CULVERTS:

Description	Type	Size	Total Length	Cost	Bevel	Bands	Cost	Sub Total	Install \$	Sum \$
				\$ -	\$ -	0	\$ -	\$ -	\$ -	\$ -
									Total	\$ -

CPP = corrugated plastic pipe

ACSP = aluminum corrugated steel pipe

Seed/mulch (1-bales and 1-lbs seed per culvert site)

Install 6' long steel "T" post.

Install outlet dissipator.

Quantity	Seed	Cost	Sub Total	Install \$	Sum \$
	\$ 5.00	\$ 8.50	\$ -	\$ 15.00	\$ -
		\$ 8.50	\$ -	\$ 20.00	\$ -
		\$ 75.00	\$ -		\$ -
					\$ -

SUB-TOTAL **\$ -**

SURFACING:

Size	Roads	Landing	Reclaim	Two-way	Culvert	Turn	Dissipator	Total	Haul only	Cost
			Soil	Junctions	Bedding	outs	(cy/pipe)			
1.5"- 0"	7 cy							7 cy	\$ 31.37	\$ 230.23
other			30 cy					30 cy		\$ -
Pit Run 6"+		30 cy						30 cy	\$ 33.20	\$ 996.01
Total =								67 cy		
SUB-TOTAL										\$ 1,226.24

GRAND TOTAL **\$ 1,460.65**

MOVE-IN COSTS

HUMBUG GNA

Move in costs							
No.	Equipment Description	Transport Cost	Hours of Transport	Cost to Move	Weedwash Time (Hrs)	Weedwash Labor (\$65/hour)	Total Cost
1	Grader	\$ 180.00	7	\$ 1,260.00	2	\$ 130.00	\$ 1,390.00
1	Rollers & Compactor	\$ 165.00	7	\$ 1,155.00	2	\$ 130.00	\$ 1,285.00
1	Excavator	\$ 220.00	7	\$ 1,540.00	6	\$ 390.00	\$ 1,930.00
0	Small backhoe	\$ 165.00	7	\$ 1,155.00	3	\$ 195.00	\$ -
0	Tractors Dozer (D5 - D8)	\$ 220.00	7	\$ 1,540.00	6	\$ 390.00	\$ -
2	Dump Truck (10 cy +)	\$ 95.00	2	\$ 190.00	1	\$ 65.00	\$ 510.00
0	Loader	\$ 180.00	7	\$ 1,260.00	0	\$ -	\$ -
0	Road Brusher	\$ 165.00	7	\$ 1,155.00	5	\$ 325.00	\$ -
1	Water Truck (1000 gallon)	\$ 95.00	2	\$ 190.00	1	\$ 65.00	\$ 255.00
Total one time							\$ 5,370.00

TOTAL MOVE-IN COSTS = \$ 5,370.00

Total Rock for Road Segment:

Road Surfacing Summary

Sizes	8"+ Pit Run	Reclaim	1.5"-0 Crushed	Total
Rock Totals	480 cy	30 cy	187 cy	697 cy

HUMBUG GNAPit Name: **Commerical Source****1.5"- 0 Crushed**

\$/cu.yd.==>

\$ 11.33

This cost will be added to the road cost sheet

Swell:

1.30

Shrinkage/Compact:

1.16

Drill Pct.:

100%

Oversize Pct.:

10%

Truck measure

560 cy

Scalp & Clear Overburden:

\$350.00 /hr x2 hrs

=

\$ 700.00

Drill & Shoot:

\$ 3.00 /cy x560 cy

=

\$ 1,680.00

Sort and split oversize rock:

\$ 4.25 /cy x56 cy

=

\$ 238.00

Load Crusher:

\$ 1.25 /cy x560 cy

=

\$ 700.00

Crushing

\$ 2.50 /cy x560 cy

=

\$ 1,400.00

Screening Rock

\$ 2.30 /cy x560 cy

=

\$ 1,288.00

Clean Up Pit

\$ 270.00 /hr x1 hrs

=

\$ 270.00

Subtotal

\$ 6,276.00**MOVE IN COSTS**

3-stage crusher

0 \$ 3,450.00

\$ -

Move in and set up Drill and Comp

0 \$ 1,200.00

\$ -

Move in D-8 (w/Wash)

0 \$ 1,615.00

\$ -

Move in Loaders

0 \$ 1,225.00

\$ -

Move in Excavator (w/Wash)

0 \$ 1,615.00

\$ -

Move in Trucks

0 \$ 140.00

\$ -

Gradation Tests

\$0.00 \$ 70.00 per

560 cy

=

\$ 70.00

\$ 70.00**ESTIMATED TOTAL COST****\$ 6,346.00**

HUMBUG GNA

(Sale Name)

COMMERICAL SOURCE		(Quarry)	ON SITE 122°3'13"W 44°48'24"N		(Stockpile)	
Crushed (Rock Type)	D10 (Truck)		12-G (Grader)		Spread	
1.5" - 0"	(Rock Size)		D8 (Tractor)		Vibratory Roller	(Compactor)

Hauling Time Computation	
50 MPH	55 Miles per round trip
40 MPH	40 Miles per round trip
35 MPH	35 Miles per round trip
30 MPH	30 Miles per round trip
25 MPH	15 Miles per round trip
20 MPH	20 Miles per round trip
15 MPH	15 Miles per round trip
10 MPH	10 Miles per round trip
5 MPH	5 Miles per round trip
	70 Total Miles per Round Trip
Dump or Spread Time per Round Trip	
Total Hauling Cycle Time for this Setting (100% Efficiency)	
Operator Efficiency Correction (80% Efficiency)	

Time Per Cubic Yard

Hauling Only (per cubic yard)	10.05 min/cu.yd
Delay Time (while loading = loading time per cubic yard)	0.52 min/cu.yd
Total Time Per Cubic Yard	10.57 min/cu.yd

Hauling Cost Per Cubic Yard Computation

Cost of Truck Per Hour	\$	50.00	per Hr.
Cost of Truck Operator Per Hour	\$	50.00	per Hr.
Total Operating Cost Per Hour	\$	100.00	per Hr.
Operating Cost Per Minute	\$	1.67	per Min.
Cost Per Cubic Yard	\$	17.62	per Cu. Yd.
	\$	0.95	per Cu. Yd.

Loading Cost Per Cubic Yard

Spreading Cost Per Cubic Yard	
Cost of Grader Per Hour	
Cost of Grader Operator Per Hour	
Cost of Compaction Equip. Per Hour	
Cost of Compaction Equip. Op. Per Hour	
Total Operating Cost Per Hour	
Cost Per Cubic Yard to Grade and Roll	
Total Cost to Load, Haul and Place	
Crushing Cost per yard	
Grand Total Combined	

Rates

Dump Truck	Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
B20	\$ 70.00	20	\$ 50.00	\$ 120.00
D10	\$ 50.00	12	\$ 50.00	\$ 100.00
OH25	\$ 80.00	25	\$ 50.00	\$ 130.00
Grader	Rate (\$/Hr.)		Operator (\$/Hr.)	Total
12-G	\$ 55.00		\$ 55.00	\$ 110.00
14-G	\$ 60.00		\$ 55.00	\$ 115.00
Compaction Equipment	Rate (\$/Hr.)		Operator (\$/Hr.)	Total
Vib. Roller	\$ 50.00		\$ 50.00	\$ 100.00
Vib. Grid Roller	\$ 50.00		\$ 50.00	\$ 100.00
Hand Held Compactor	\$ 20.00		\$ 50.00	\$ 70.00
Tractors	Rate (\$/Hr.)		Operator (\$/Hr.)	Total
D4	\$ 35.00		\$ 55.00	\$ 90.00
D6	\$ 60.00		\$ 55.00	\$ 115.00
D7	\$ 70.00		\$ 55.00	\$ 125.00
D8	\$ 110.00		\$ 55.00	\$ 165.00
Loader	Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
14G Cat Wheel Loader	\$ 60.00	3	\$ 50.00	\$ 110.00

Loading Costs	Rate (Min/Load)	Delay (Min)	Total Loading Time (Min)
Crushed Rock	\$	1.25	6.25
Pit-Run/Jaw-Run Rock	\$	1.25	6.25
Rip Rap Rock	\$	1.25	6.25
Fill Material	\$	1.25	6.25
Dump or Spread Time (Min)			
Pile Dump	0.25		
Truck Spread	0.5		
Spreading w/Grader	\$		

HUMBUG GNA			(Sale Name)	
Commercial Source	(Quarry)	ON SITE 122°3'13"W 44°48'24"N (Stockpile)		
Pit Run (Rock Type)	D10 (Truck)	12-G (Grader)		
6"+ (Rock Size)	14G (Loader)	D8 (Tractor)		

Hauling Time Computation				Spread	(Compactor)
50 MPH	55	Miles per round trip	66	Minutes	
40 MPH		Miles per round trip	0	Minutes	
35 MPH		Miles per round trip	0	Minutes	
30 MPH	15	Miles per round trip	30	Minutes	
25 MPH		Miles per round trip	0	Minutes	
20 MPH		Miles per round trip	0	Minutes	
15 MPH		Miles per round trip	0	Minutes	
10 MPH		Miles per round trip	0	Minutes	
5 MPH		Miles per round trip	0	Minutes	
	70	Total Miles per Round Trip			
Dump or Spread Time per Round Trip					
Total Hauling Cycle Time for this Setting (100% Efficiency)					
Operator Efficiency Correction (80% Efficiency)					

Time Per Cubic Yard

Hauling Only (per cubic yard)	11.04	min/cu.yd
Delay Time (while loading = loading time per cubic yard)	0.52	min/cu.yd
Total Time Per Cubic Yard	11.56	min/cu.yd

Hauling Cost Per Cubic Yard Computation

Cost of Truck Per Hour	\$	50.00	per Hr.
Cost of Truck Operator Per Hour	\$	50.00	per Hr.
Total Operating Cost Per Hour	\$	100.00	per Hr.
Operating Cost Per Minute	\$	1.67	per Min.
Cost Per Cubic Yard	\$	19.27	per Cu. Yd.
Loading Cost Per Cubic Yard	\$	1.07	per Cu. Yd.
PR			
Cost of Excavator Per Hour	\$	55.00	per Hr.
Cost of Excavator Operator Per Hour	\$	55.00	per Hr.
Cost of Compaction Equip. Per Hour			per Hr.
Cost of Compaction Equip. Op. Per Hour			per Hr.
Total Operating Cost Per Hour	\$	110.00	per Hr.
Cost Per Cubic Yard to place rock	\$	1.53	Cu. Yd.
Total Cost to Load, Haul and Place	\$	21.87	Cu. Yd.
No Crushing	\$	11.33	
Grand Total Combined	\$	33.20	

		Rates		
Dump Truck	Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
B20	\$ 70.00	20	\$ 50.00	\$ 120.00
D10	\$ 50.00	12	\$ 50.00	\$ 100.00
OH25	\$ 80.00	25	\$ 50.00	\$ 130.00
Grader	Rate (\$/Hr.)		Operator (\$/Hr.)	Total
12-G	\$ 55.00		\$ 55.00	\$ 110.00
14-G	\$ 60.00		\$ 55.00	\$ 115.00
Compaction Equipment	Rate (\$/Hr.)		Operator (\$/Hr.)	Total
Vibratory Roller	\$ 50.00		\$ 50.00	\$ 100.00
Vib. Grid Roller	\$ 50.00		\$ 50.00	\$ 100.00
Hand Held Compactor	\$ 20.00		\$ 50.00	\$ 70.00
Tractors	Rate (\$/Hr.)		Operator (\$/Hr.)	Total
D4	\$ 35.00		\$ 55.00	\$ 90.00
D6	\$ 60.00		\$ 55.00	\$ 115.00
D7	\$ 70.00		\$ 55.00	\$ 125.00
D8	\$ 110.00		\$ 55.00	\$ 165.00
Loader	Rate (\$/Hr.)	Capacity (cy)	Operator (\$/Hr.)	Total
14G Cat Wheel Loader	\$ 60.00	3	\$ 50.00	\$ 110.00

Cat Excavator	\$	130.00	3	\$	50.00	\$	180.00
Loading Costs		Rate (Min/Load)		Delay (Min)	Total Loading Time (Min)		
Crushed Rock			5	1.25	6.25		
Pit-Run/Jaw-Run Rock			5	2.00	7.00		
Rip Rap Rock			5	1.25	6.25		
Fill Material			5	1.25	6.25		

Dump or Spread Time (Min)

Pile Dump and place rock	10
Truck Spread	0.5
Spreading w/Grader	5

TIMBER SALE SUMMARY Humbug GNA

1. **Location:** T09S, R06E Sec 1,2, & 11 W.M., Marion County, Oregon.
2. **Revenue Distribution:** WIL-SPA 23-GN-11061800-019, project GF9A23-01 (ODF program revenue)
3. **Type of Sale:** Recovery sale, sealed bid auction of 57 acres of thinning.
4. **Sale Acreage** For the sale, 57 net acres were used for the cruise expansion. Boundary posting encompasses 57 acres. Acreage was determined by field foresters using Avenza and Fieldmaps. ArcGIS Pro was then used to finalize acreage.
5. **Volume:** The table below describes the volume by grade over the sale areas. The bid species is Douglas-fir only. A more detailed look of volume is available in the cruise report.
6. **Cruise:** The volume of the sale is estimated to be 941 MBF (8% sampling error), or 1,254 MBF utilizing USFS R6 volume estimates (short log volume). The volume of sale areas will be more variable due to the smaller sample compared to the total volume sample. See the cruise report for more detail. Additional SuperAce reports available upon request.
7. **Timber Description:** All areas are predominantly Douglas-fir stands with a height range between 70-120' and an average of 14 inches diameter at breast height. The volume per acre is variable with portions of the stands having western hemlock, and minor amounts of other tree species. These stands are 50 - 56 years old, having been harvested between 1966 and 1972. The merchantable species will be mostly Douglas-fir, with some western hemlock. The cruise report gives a breakdown of log lengths and scaling diameters by species for the areas in the cruise. Stand management objectives are to remove the smaller trees in suppressed and intermediate canopy positions and to release dominant and co-dominant trees and improve the quality of the residual stand.
8. **Topography and Logging Method:** The majority (77%) of the sale can be logged with ground-based logging equipment, operating on slopes 35% and less, or up to 45% for short pitches (>250ft), while 23% can be cable logged with downhill yarding. Existing skid roads should be used whenever possible. Cable corridors will have to be planned carefully to maximize operability. See the detailed logging map which shows the logging plan. No new roads will need to be constructed. Sufficient haul and skid roads are present on site yet there is a need for a new construct temp road through Unit 3. Historical aerial photographs from the prior harvest are available to assist with locating previously used skid trails and roads within the timber sale boundary.
9. **Access:** The Timber Sale Area is located Northeast of Detroit, Oregon, within the Willamette National Forest on the Detroit Ranger District. Access to the Timber Sale Area is as follows: from the town of Detroit, Oregon, starting at MP 50, take Breitenbush Rd 46 heading Northeast. Travel 4.4 miles on Breitenbush Hwy 46 until you reach the intersection of FS-4696. If you pass the USFS Humbug Campground you missed FS-4696. Once on FS-4696 travel 2 miles on pavement. The pavement will end at the junction of NF-4696 and NF-4698. Continue North on the aggregate surface of FS-4696 for another 1.4 miles. Here will be the Southern boundary of the Timber Sale Area. Continue from this point for another 1.7 miles to reach the Northern boundary of the Timber Sale Area
10. **Projects:** Road improvements and temporary road decommission projects total to \$23,194.60. Most of the project work will involve spot rocking along the mainline, USFS 4696, and rocking landings. It is assumed all landings will be rocked with pit run, no reclaim utilized. There is one small new temporary road which will have to be constructed and then decommissioned.
11. **Road Maintenance:** Normal road maintenance during operations.
12. **Other Costs:** Weed washing and slash piling, accounted for in the projects/appraisal.
13. **Slash Disposal:** Purchaser shall pile slash on landings and the tractor ground with an excavator or log loader or alternatively, spread slash throughout the units less than 18" in depth with a goal of 85% ground cover; sorting out firewood is required, utilize pieces of woody debris for down wood in the unit.

OREGON DEPARTMENT of FORESTRY CRUISE REPORT Humbug GNA

1. **Acreage Calculation:** For the Humbug GNA Timber Sale, there are 57 net cruise acres in the sale area determined by a combination of GPS traverse waypoints and ArcGIS Pro software. Net acres do not include the riparian management areas, regeneration areas within the stand, and low-stocked areas which were not cruised. Purchasers shall treat low stocked areas following the thinning prescription.

2. **Cruise Design:** Cruising was completed by ODF during October 2024. A variable plot cruise was conducted on the sale area.

A Coefficient of Variation of 80% and an average stand diameter of 15.2 inches (take trees) is estimated prior to cruising. For sales of this size and approximate value, ODF cruise standards require a sampling error of 8% at a 68.1% confidence level. The cruise design chosen for this sale is a variable radius count/measure cruise. Due to similarities between all units only one Strata was used. The silvicultural prescriptions calls for DxD spacing of 15', 13', 17', and 15' respectively of units 1, 2, 3, and 4. There will be a total of 13 Dominate Tree Release areas. These 13 DTRs have been identified and marked by STATE. DTR cut areas will require the marked tree to remain on site while all trees regardless of size and species will be cut. Cut radius around DTR will be 66 feet. Trees that are 'likely take' based on the prescription were cruised. Plot points are identified by blue stake flagging. Rx was marked within the plot with green flagging as take trees and red flagging as reserved or leave trees.

3. **Sampling Methods & Intensity:**

Plots were laid out on a 292 ft. x 292 ft. grid. Plots falling on or near the Timber Sale Boundary or existing roads were offset 1 chain (66 ft.). A grade to count plot ratio of 1:1 was used.

Plots 29 Total Plots (15 Measured, 14 Count Plots, and 0 Blank Plots)

CV (BDFT) 74.9% (total)

SE (BDFT) 8% (total)

According to ODF standards, total harvest volume of conifers and hardwoods ("take" trees) is estimated to be 941 MBF* $\pm$ 75 MBF at the 68% confidence level and a standard error of 8%. Sixty-eight times out of 100 the volume estimate will be between 865 MBF and 1,016 MBF.

4. **Computation Procedures:** Volume was computed using the SuperAce cruise program. Volumes reported are based on the Scribner Log Rule (West), and tonnage calculated by 7.4 tons per MBF.
5. **Form Factors:** Form factors (a ratio of diameter at 4 and 16 feet) were sampled across the diameter distribution in all strata.
6. **Height Standards:** Conifer trees were measured for total height with a laser rangefinder.
7. **Diameter standards:** Diameters were measured outside bark at breast height to the nearest inch.
8. **Grading System:** Trees were graded primarily as 40 foot segments lengths and according to the Official Log Scaling and Grading Rules published by the Northwest Log Rules Advisory Group.
9. **Merchantable top:** Conifer were graded to a merchantable top specified by the official log scaling rules. 2S segments were graded to a 12" top inside bark, 3S to a 6" top, and 4S to a 5" top (inside bark).
10. **Deductions for Cull, Defect and Breakage:** All visible field cull was removed in the cruise computation. Additional volume was deducted for the anticipated amount of hidden cull and breakage during logging. The estimated volume reduction used for this anticipated loss to volume was 4%.

11. Cruisers: Cruising was performed by ODF foresters.

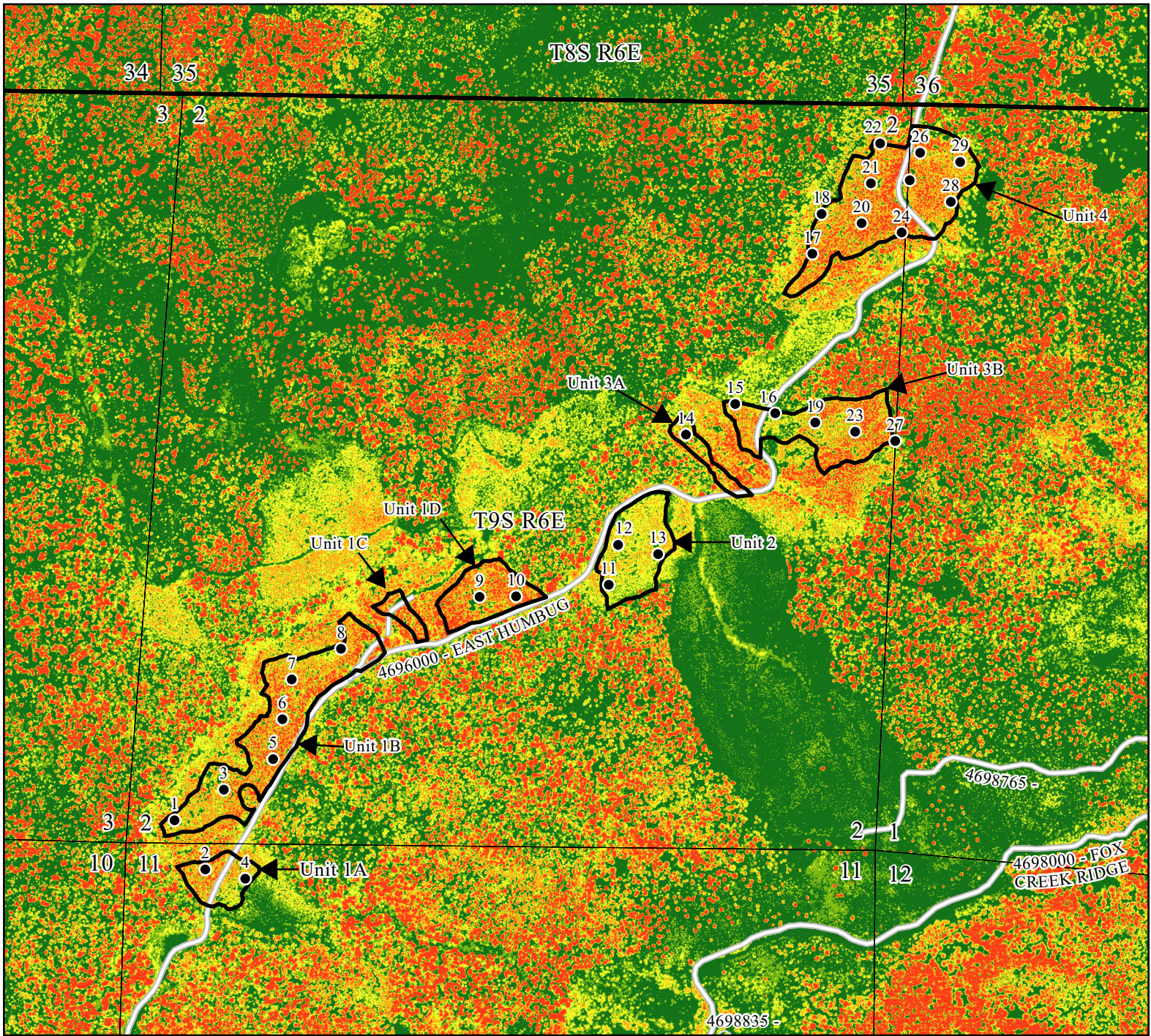
VOLUME SUMMARY Humbug GNA

Species (Take)	CRUISE VOLUME PER ACRE					ADJUSTED VOLUME BF/ACRE				TOTAL VOLUME BF			
	Rx	2 Saw	3 Saw	4 Saw	Cruise Vol/Acre	2 Saw	3 Saw	4 Saw	NET ACRES	2 Saw	3 Saw	4 Saw	Total Volume
DF	DF TAKE ONLY (BF)	2,407	11,581	3,204	17,192	2,311	11,118	3,076	57.0	131,711	633,712	175,323	940,746
DF	DF TAKE ONLY (MBF)	2	12	3	17	2	11	3	57.0	132	634	175	941
Cruise volume includes log segment deductions						*Adjusted for 4% hidden defect and cull				*Net Adjusted Volume			

SALE VOLUME BY GRADE MBF				
Species	2 Saw	3 Saw	4 Saw	Total
DF	131,711	633,712	175,323	940,746
Sale Volume	131,711	633,712	175,323	940,746

SALE VOLUME BY GRADE PERCENTAGE				
	2 Saw	3 Saw	4 Saw	Total
DF	14%	67%	19%	100%
Sale Volume	14%	67%	19%	100%

*ODF does not guarantee the volume of this or any other cruise. Prospective purchasers are advised to perform their own cruise and appraisal. These volumes reflect merchantable saw logs. A small amount of pulp logs could be harvested from the sale area.



Legend

Timber Sale Boundary

Plots

Lidar Canopy Height (ft)

- 8 - 25
- 26 - 50
- 51 - 76
- 77 - 101
- 102 - 126

CRUISE MAP

FOR TIMBER SALE CONTRACT #NC-341-2026-GF9A23-01

HUMBUG GNA

PORTIONS OF SECTIONS 1, 2, 11, T9S, R6E, W.M.

MARION COUNTY, OREGON

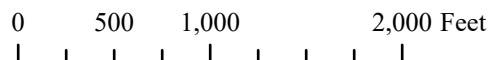
USFS DETROIT DISTRICT, WILLAMETTE NATIONAL FOREST

North Cascade District GIS

October, 2024

This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.

1:12,000
1 inch = 1,000 feet



APROXIMATE NET ACRES

UNIT 1	24
UNIT 2	7
UNIT 3	10
UNIT 4	16
TOTAL	57

TC		PLOGSTVB		Log Stock Table - MBF																	
T09S R06E S01 TyTIMB57.00				Project:		HMBGGNA										Page		1			
				Acres		57.00										Date		10/22/2024			
																Time		8:51:34AM			
Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
DF	L	DO	2M	40	552		552	46.8					208		289	55					
DF	L	DO	3M	34	4		4	.3			4										
DF	L	DO	3M	40	524		524	44.4			122	175	227								
DF	L	DO	4M	12	1		1	.1		1											
DF	L	DO	4M	13	4		4	.3		4											
DF	L	DO	4M	14	2		2	.1		2											
DF	L	DO	4M	15	4		4	.4		4											
DF	L	DO	4M	16	1		1	.1		1											
DF	L	DO	4M	17	7		7	.6		7											
DF	L	DO	4M	18	5		5	.4		5											
DF	L	DO	4M	19	3		3	.3		3											
DF	L	DO	4M	20	2		2	.2		2											
DF	L	DO	4M	22	1		1	.1		1											
DF	L	DO	4M	23	1		1	.1		1											
DF	L	DO	4M	24	3		3	.3		3											
DF	L	DO	4M	25	4		4	.3		4											
DF	L	DO	4M	26	6		6	.5		6											
DF	L	DO	4M	27	7		7	.6		7											
DF	L	DO	4M	28	4		4	.3		4											
DF	L	DO	4M	29	3		3	.2			3										
DF	L	DO	4M	30	8		8	.7		8											
DF	L	DO	4M	31	2		2	.2		2											
DF	L	DO	4M	32	4		4	.4		4											
DF	L	DO	4M	38	2		2	.2		2											
DF	L	DO	4M	39	6		6	.5		6											
DF	L	DO	4M	40	19		19	1.6		19											
DF		Totals			1,179		1,179	53.9		96	128	175	227	208	289	55					
DF	T	DO	2M	40	137		137	14.0					126	12							
DF	T	DO	3M	32	8		8	.8			8										
DF	T	DO	3M	40	652		652	66.5			150	203	299								
DF	T	DO	4M	12	4		4	.4		4											
DF	T	DO	4M	13	3		3	.3		3											
DF	T	DO	4M	14	2		2	.2		2											
DF	T	DO	4M	15	1		1	.1		1											
DF	T	DO	4M	16	2		2	.2		2											
DF	T	DO	4M	19	2		2	.2		2											

TC		PLOGSTVB																		Log Stock Table - MBF									
T09S R06E S01 TyTIMB					57.00		Project:		HMBGGNA										Page		2								
																			Date		10/22/2024								
																			Time		8:51:34AM								
Spp	S T	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches																				
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+									
DF	T	DO	4M	20	7		7	.7		2		5																	
DF	T	DO	4M	21	3		3	.3		3																			
DF	T	DO	4M	23	2		2	.2		2																			
DF	T	DO	4M	26	6		6	.6		6																			
DF	T	DO	4M	27	13		13	1.4		13																			
DF	T	DO	4M	29	3		3	.3		3																			
DF	T	DO	4M	30	3		3	.3		3																			
DF	T	DO	4M	31	14		14	1.4		14																			
DF	T	DO	4M	32	8		8	.8		8																			
DF	T	DO	4M	33	3		3	.4		3																			
DF	T	DO	4M	34	6		6	.6		6																			
DF	T	DO	4M	35	5		5	.5		5																			
DF	T	DO	4M	36	13		13	1.3		13																			
DF	T	DO	4M	37	6		6	.6		6																			
DF	T	DO	4M	38	14		14	1.5		14																			
DF	T	DO	4M	39	3		3	.3		3																			
DF	T	DO	4M	40	59		59	6.0		59																			
DF		Totals				980		980	44.8		178		163	203	299	126	12												
WH	L	DO	3M	40	9		9	86.6				4	4																
WH	L	DO	4M	14	1		1	6.3		1																			
WH	L	DO	4M	17	1		1	7.1		1																			
WH		Totals				10		10	.5		1		4	4															
SF	L	DO	2M	40	11		11	57.9					11																
SF	L	DO	3M	40	7		7	35.9				7																	
SF	L	DO	4M	15	1		1	6.1		1																			
SF		Totals				19		19	.9		1		7		11														
Total		All Species				2,188		2,188	100.0		277		302	382	526	345	301	55											

TC PSTATS				PROJECT STATISTICS				PAGE	1			
				PROJECT	HMBGGNA			DATE	10/22/2024			
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt		
09S	06E	01	ALL UNITS	TIMB	57.00		29	319	S	W		
				TREES	ESTIMATED TOTAL		PERCENT SAMPLE					
				PLOTS	TREES	PER PLOT	TREES	TREES				
TOTAL			29	319	11.0							
CRUISE			15	168	11.2		12,806		1.3			
DBH COUNT												
REFOREST												
COUNT			14	151	10.8							
BLANKS												
100 %												
STAND SUMMARY												
			SAMPLE TREES	TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUG FIR-L			80	90.5	16.8	76	33.9	138.8	20,680	20,680	5,057	5,054
DOUG FIR-T			83	130.6	13.4	63	35.1	128.6	17,192	17,192	4,181	4,187
PS FIR-L			3	1.8	15.9	68	0.6	2.6	337	337	90	90
WHEMLOCK-L			2	1.7	13.4	55	0.5	1.7	177	177	48	48
TOTAL			168	224.7	14.9	68	70.4	271.6	38,386	38,386	9,376	9,380
CONFIDENCE LIMITS OF THE SAMPLE												
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR												
CL	68.1	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15			
DOUG FIR-L			48.4	5.4	269	284	299					
DOUG FIR-T			51.6	5.7	157	167	176					
PS FIR-L			52.7	36.5	146	230	314					
WHEMLOCK-L			38.6	36.1	70	110	150					
TOTAL			57.3	4.4	213	223	233	131	33	15		
CL	68.1	COEFF	SAMPLE TREES - CF					# OF TREES REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15			
DOUG FIR-L			45.1	5.0	66	69	72					
DOUG FIR-T			51.5	5.6	38	41	43					
PS FIR-L			52.8	36.5	39	62	84					
WHEMLOCK-L			38.1	35.7	19	30	41					
TOTAL			54.9	4.2	52	54	57	121	30	13		
CL	68.1	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15			
DOUG FIR-L			34.2	6.5	85	90	96					
DOUG FIR-T			37.4	7.1	121	131	140					
PS FIR-L			335.8	63.4	1	2	3					
WHEMLOCK-L			389.8	73.6	0	2	3					
TOTAL			25.3	4.8	214	225	235	26	7	3		
CL	68.1	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15			
DOUG FIR-L			34.1	6.4	130	139	148					
DOUG FIR-T			36.1	6.8	120	129	137					
PS FIR-L			299.6	56.6	1	3	4					
WHEMLOCK-L			373.9	70.6	1	2	3					
TOTAL			23.8	4.5	259	272	284	23	6	3		
CL	68.1	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.		
SD:	1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15			
DOUG FIR-L			39.2	7.4	19,148	20,680	22,211					
DOUG FIR-T			42.4	8.0	15,817	17,192	18,567					
PS FIR-L			302.1	57.0	145	337	529					
WHEMLOCK-L			374.0	70.6	52	177	302					

TC PSTATS				PROJECT STATISTICS				PAGE	2	
				PROJECT	HMBGGNA			DATE	10/22/2024	
TWP	RGE	SC	TRACT	TYPE	ACRES		PLOTS	TREES	CuFt	BdFt
09S	06E	01	ALL UNITS	TIMB	57.00		29	319	S	W
CL	68.1		COEFF	NET BF/ACRE				# OF PLOTS REQ.	INF. POP.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
TOTAL			31.4	5.9	36,108	38,386	40,664	41	10	5
CL	68.1		COEFF	NET CUFT FT/ACRE				# OF PLOTS REQ.	INF. POP.	
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15
DOUG FIR-L			38.5	7.3	4,687	5,054	5,422			
DOUG FIR-T			41.0	7.7	3,863	4,187	4,512			
PS FIR-L			302.2	57.1	39	90	142			
WHEMLOCK-L			374.0	70.6	14	48	82			
TOTAL			30.1	5.7	8,848	9,380	9,912	37	9	4

TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																				
T09S R06E S01 TyTIMB57.00				Project:		HMBGGNA												Page		1				
				Acres		57.00												Date		10/22/2024				
																		Time		8:51:34AM				
S So Gr Spp T rt ad				%	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre			
				Net BdFt					Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf				
									4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99								
DF	L	DO	2M	46	9,686	9,686	552	95 5				100				40	14	272	1.49	35.6				
DF	L	DO	3M	45	9,262	9,262	528	100				1 99				40	8	107	0.69	86.7				
DF	L	DO	4M	9	1,732	1,732	99	97	3					30	36	7	28	24	5	25	0.32	68.2		
DF Totals				54	20,680	20,680	1,179	8	45	45	2	2	3	1	94	34	8	109	0.77	190.6				
DF	T	DO	2M	14	2,407	2,407	137	100				100				40	13	227	1.27	10.6				
DF	T	DO	3M	67	11,581	11,581	660	100				1 99				40	8	105	0.62	110.2				
DF	T	DO	4M	19	3,204	3,204	183	97	3					12	16	20	52	29	5	30	0.29	107.0		
DF Totals				45	17,192	17,192	980	18	68	14					2	3	5	90	35	7	75	0.53	227.8	
WH L DO 3M WH L DO 4M				86	154	154	9	100				100				40	8	88	0.60	1.7				
				14	24	24	1	100					100					15	5	14	0.24	1.7		
WH Totals				0	177	177	10	13	87					13	87				28	6	51	0.50	3.5	
SF L DO 2M SF L DO 3M SF L DO 4M				57	195	195	11	100				100				40	13	240	1.45	.8				
				36	121	121	7	100				100				40	7	66	0.54	1.8				
				7	21	21	1	100					100					15	5	20	0.20	1.0		
SF Totals				1	337	337	19	6	36	58					6	94				33	8	91	0.74	3.7
Totals					38,386	38,386	2,188	13	55	31	1	2	3	3	92	35	7	90	0.64	425.6				

TC		PSTNDSUM											Stand Table Summary											Page		1	
																								Date:		10/22/2024	
T09S R06E S01 TyTIMB					57.00					Project					HMBGGNA					Time:		8:51:35AM					
										Acres					57.00					Grown Year:							
S SpC	T	Tot			Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	T o t a l s														
		DBH	Sample Trees	FF 16'				Av Ht	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF											
DF L		8	1	90	79	4.508	1.73	4.51	6.0	30.0	.78	27	135	44	15	8											
DF L		11	1	89	79	2.885	1.73	2.88	15.0	60.0	1.22	43	173	70	25	10											
DF L		12	4	90	81	9.077	6.94	15.83	11.8	44.5	5.26	187	704	300	107	40											
DF L		13	1	90	79	1.941	1.73	3.88	11.9	40.0	1.32	46	155	75	26	9											
DF L		14	7	89	94	11.249	12.14	22.50	17.1	71.9	11.09	385	1,618	632	220	92											
DF L		15	4	90	103	5.757	6.94	11.51	20.7	86.4	6.83	238	995	390	136	57											
DF L		16	5	90	94	6.378	8.67	12.76	22.1	86.8	8.11	282	1,108	462	161	63											
DF L		17	12	90	106	13.373	20.82	26.81	27.5	111.0	20.98	736	2,976	1,196	420	170											
DF L		18	8	90	113	7.857	13.88	18.68	28.3	111.0	15.08	528	2,075	860	301	118											
DF L		19	8	90	112	7.116	13.88	17.74	30.4	122.6	15.33	539	2,175	874	307	124											
DF L		20	6	90	119	4.759	10.41	13.51	32.1	136.1	12.35	434	1,839	704	248	105											
DF L		21	13	90	114	9.497	22.55	24.17	37.2	150.9	25.64	899	3,648	1,461	513	208											
DF L		22	5	89	114	3.293	8.67	8.55	41.0	180.0	9.96	350	1,540	568	200	88											
DF L		23	3	89	116	1.815	5.20	4.84	45.5	197.6	6.27	220	957	358	126	55											
DF L		25	1	89	99	.497	1.73	.99	64.7	260.0	1.84	64	258	105	37	15											
DF L		26	1	90	116	.463	1.73	1.39	52.1	233.3	2.06	72	324	117	41	18											
DF L		Totals	80	90	101	90.466	138.78	190.57	26.5	108.5	144.12	5,054	20,680	8,215	2,881	1,179											
DF T		8	2	89	67	8.050	3.10	8.05	5.5	25.0	1.25	44	201	71	25	11											
DF T		9	2	89	77	6.498	3.10	6.50	9.5	40.0	1.71	62	260	97	35	15											
DF T		10	6	89	77	16.848	9.29	16.85	11.8	44.9	5.53	199	756	315	114	43											
DF T		11	6	90	81	13.675	9.29	20.51	10.9	43.2	6.35	224	887	362	128	51											
DF T		12	6	89	100	11.518	9.29	23.04	12.7	54.0	8.33	293	1,245	475	167	71											
DF T		13	11	89	90	18.557	17.04	37.11	13.9	54.5	14.63	518	2,022	834	295	115											
DF T		14	7	89	100	10.090	10.84	20.18	17.9	76.5	10.39	362	1,543	592	206	88											
DF T		15	14	90	107	17.937	21.69	35.87	22.0	92.4	22.64	789	3,316	1,290	450	189											
DF T		16	8	90	108	8.693	12.39	17.39	26.0	109.7	12.85	452	1,907	732	257	109											
DF T		17	8	90	109	8.119	12.39	16.24	27.9	115.6	12.90	453	1,878	735	258	107											
DF T		18	6	90	118	5.253	9.29	12.26	30.0	121.2	10.52	368	1,486	600	210	85											
DF T		19	4	89	115	3.183	6.20	8.75	28.5	114.6	7.08	249	1,002	403	142	57											
DF T		20	3	90	107	2.182	4.65	5.06	34.6	136.0	4.98	175	688	284	100	39											
DF T		Totals	83	89	94	130.602	128.57	227.80	18.4	75.5	119.16	4,187	17,192	6,792	2,387	980											
SF L		12	1	90	84	1.032	.85	2.06	12.0	45.0	.71	25	93	41	14	5											
SF L		19	1	90	105	.415	.85	.83	40.2	150.0	.95	33	124	54	19	7											
SF L		20	1	90	107	.398	.85	.80	40.2	150.0	.91	32	119	52	18	7											
SF L		Totals	3	90	94	1.845	2.55	3.69	24.4	91.3	2.58	90	337	147	51	19											
WH L		12	1	90	82	1.121	.85	2.24	10.9	40.0	.77	24	90	44	14	5											
WH L		16	1	89	73	.625	.85	1.25	19.0	70.0	.77	24	88	44	14	5											
WH L		Totals	2	90	79	1.746	1.70	3.49	13.8	50.7	1.53	48	177	87	27	10											
Totals		168	90	97		224.660	271.60	425.56	22.0	90.2	267.40	9,380	38,386	15,242	5,347	2,188											

TC TREESEGR														TREE SEGMENT VOLUMES										Page		1															
														Project: HMBGGNA										Date		10/22/2024															
TWP	RGE	SC	TRACT				TYPE				ACRES				PLOTS				TREES				CRUISED DATE				CuFt	BdFt													
09S	06E	01	ALL UNITS				TIMB				57.00				29				168				10/1/2024				S	W													
Tree					C				T				Bole				Tot.				S				Dia				Dia				Gross	Net	Gross	Net					
Plot	No.	PF	A	Spc	S	T	DBH	FF	FF	D	Hgt	Hg	PRDVT	SG	Len	FIFI	Bark	Ao	Butt	Top	CuFt	CuFt	BdFt	BdFt	BdFt	BdFt															
0001	0001	B1	1	DF	L	6	16.8	16	90	F	76	101		1xx	35						56	56	229	229																	
																					Count										56	56	229	229							
	0002	B1	1	DF	T	3	13.4	16	90	F	63	94		1xx	35						32	32	132	132																	
																					Count										32	32	132	132							
PLOT						BA = 222.22				T/A = 171.819												7,807	7,808	31,981	31,981																
0002	0001	B1	1	DF	T	1	18.8	16	90	F	86	108		182	40	1	.920	.505	18.18	13.04	54	54	240	240																	
																					BA = 24.69										283	40	2	.920	.505	13.04	6.44	22	22	60	60
	0002	B1	1	DF	L	1	22.3	16	90	F	99	119		182	40	1	.920	.505	21.63	15.86	76	76	300	300																	
																					BA = 24.69										73	73	360	360							
																															33	33	120	120							
																															5	5	20	20							
	0003	B1	1	DF	L	1	21.4	16	90	F	92	111		182	40	1	.920	.505	20.72	14.99	111	111	500	500																	
																					BA = 24.69										283	40	2	.920	.505	14.99	8.02	28	28	90	90
																															93	93	380	380							
																															65	65	290	290							
	0004	B1	1	DF	L	1	20.4	16	90	F	88	107		182	40	1	.920	.505	19.73	14.16	87	88	360	360																	
																					BA = 24.69										283	40	2	.920	.505	14.16	7.03	27	27	70	70
																															61	61	290	290							
																															87	88	360	360							
	0005	B1	1	DF	T	1	19.4	16	90	F	93	116		182	40	1	.920	.505	18.80	13.71	80	80	320	320																	
																					BA = 24.69										54	54	240	240							
																															24	24	70	70							
																															2	2	10	10							
	0006	B1	1	DF	L	1	22.2	16	90	F	101	121		182	40	1	.920	.505	21.54	15.87	80	80	320	320																	
																					BA = 24.69										73	73	360	360							
																														33	33	120	120								
																														5	5	20	20								
0007	B1	1	DF	L	1	20.7	16	90	F	97	119		182	40	1	.920	.505	20.07	14.71	112	112	500	500																		
																				BA = 24.69										283	40	2	.920	.505	14.71	8.75	28	28	90	90	
																														384	16		.920	.505	8.75	5.03	4	4	20	20	
																														97	97	400	400								
0008	B1	1	DF	T	1	16.5	16	90	F	82	107		183	40	1	.920	.505	15.95	11.42	97	97	400	400																		
																				BA = 24.69										284	40	2	.920	.505	11.42	5.52	16	16	40	40	
																														54	54	220	220								
																														68	68	360	360								
0009	B1	1	DF	L	1	21.6	16	90	F	97	117		182	40	1	.920	.505	20.94	15.32	103	103	470	470																		
																				BA = 24.69										283	40	2	.920	.505	15.32	8.97	32	32	90	90	
																														384	15		.920	.505	8.97	5.26	4	4	20	20	
																														104	104	530	530								
0010	B1	1	DF	L	1	26.2	16	90	F	100	116		182	40	1	.920	.505	25.40	18.56	156	156	700	700																		
																				BA = 24.69										283	40	2	.920	.505	18.56	10.77	46	46	150	150	
																														384	18		.920	.505	10.77	5.18	6	6	20	20	
0011	B1	1	DF	T	1	16.4	16	90	F	83	109		183	40	1	.920	.505	15.86	11.40	156	156	700	700																		
																				BA = 24.69										284	40	2	.920	.505	11.40	5.71	38	38	180	180	
																														54	54	220	220								
PLOT						BA = 271.60				T/A = 124.213												10,701	10,725	45,273	45,273																
0003	0001	B1	1	DF	L	5	16.8	16	90	F	76	101		1xx	35						56	56	229	229																	
																					Count										56	56	229	229							
	0002	B1	1	DF	T	2	13.4	16	90	F	63	94		1xx	35						32	32	132	132																	
																					Count										32	32	132	132							
PLOT						BA = 172.84				T/A = 130.641												6,105	6,104	25,000	25,000																
0004	0001	B1	1	DF	T	1	10.0	16	90	F	43	79		183	32	1	.920	.505	9.51	6.74	10	10	50	50																	
																					BA = 24.69										10	10	50	50							
	0002	B1	1	DF	L	1	14.0	16	90	F	58	81		183	40	1	.920	.505	13.38	8.62	25	25	90	90																	
																					BA = 24.69										284	18	2	.920	.505	8.62	5.06	4	4	20	20
0003	B1	1	DF	T	1	10.4	16	90	F	41	70		184	40	1	.920	.505	9.89	5.52	30	29	110	110																		
																				BA = 24.69										12	12	40	40								
																					12	12	40	40																	

TWP	RGE	SC	TRACT				TYPE				ACRES				PLOTS				TREES				CRUISED DATE				CuFt	BdFt						
09S	06E	01	ALL UNITS				TIMB				57.00				29				168				10/1/2024				S	W						
Tree			C				T				Bole				Tot.				S				Dia				Dia				Gross	Net	Gross	Net
Plot	No.	PF	A	Spc	S	T	DBH	FF	FF	D	Hgt	Hg	PRDVT	SG	Len	FIFI	Bark	Ao	Butt	Top	CuFt	CuFt	BdFt	BdFt										
0004	0004	B1	1	DF	T	1	8.4	16	90	F	26	56		184	20	1	.920	.505	7.99	6.31	5	5	20	20										
							BA = 24.69				T/A = 64.159											5	5	20	20									
	0005	B1	1	DF	L	1	12.8	16	90	F	54	79		183	40	1	.920	.505	12.21	7.74	21	21	70	70										
							BA = 24.69				T/A = 27.631				284	14	2	.920	.505	7.74	5.11	3	3	10	10									
																					24	24	80	80										
	0006	B1	1	DF	L	1	15.3	16	90	F	65	87		183	40	1	.920	.505	14.68	9.82	30	30	120	120										
							BA = 24.69				T/A = 19.339				284	25	2	.920	.505	9.82	5.05	7	7	30	30									
																					37	37	150	150										
PLOT							BA = 148.15				T/A = 221.353											3,315	3,332	12,873	12,873									
0005	0001	B1	1	DF	L	8	16.8	16	90	F	76	101		1xx	35						56	56	229	229										
				Count			BA = 197.53				T/A = 128.761											56	56	229	229									
	0002	B1	1	DF	T	6	13.4	16	90	F	63	94		1xx	35						32	32	132	132										
				Count			BA = 148.15				T/A = 150.496											32	32	132	132									
PLOT							BA = 345.68				T/A = 279.257											12,016	12,019	49,244	49,244									
0006	0001	B1	1	DF	L	1	15.7	16	90	F	72	96		183	40	1	.920	.505	15.12	10.48	35	35	150	150										
							BA = 24.69				T/A = 18.366				284	32	2	.920	.505	10.48	5.09	11	11	30	30									
																					46	46	180	180										
	0002	B1	1	DF	T	1	14.0	16	90	F	74	105		183	40	1	.920	.505	13.52	9.58	27	27	120	120										
							BA = 24.69				T/A = 23.097				284	34	2	.920	.505	9.58	5.19	10	10	40	40									
																					37	37	160	160										
	0003	B1	1	DF	L	1	19.5	16	90	F	100	125		182	40	1	.920	.505	18.93	14.00	54	54	240	240										
							BA = 24.69				T/A = 11.906				283	40	2	.920	.505	14.00	8.85	25	25	90	90									
														384	19		.920	.505	8.85	5.09	5	5	20	20										
																					84	84	350	350										
	0004	B1	1	DF	L	1	21.9	16	90	F	86	103		182	40	1	.920	.505	21.15	15.04	73	73	360	360										
							BA = 24.69				T/A = 9.439				283	40	2	.920	.505	15.04	6.70	28	28	60	60									
																					101	101	420	420										
	0005	B1	1	DF	T	1	9.3	16	90	F	36	70		184	36	1	.920	.505	8.84	5.38	9	9	40	40										
							BA = 24.69				T/A = 52.342											9	9	40	40									
	0006	B1	1	DF	T	1	16.4	16	90	F	87	115		183	40	1	.920	.505	15.88	11.54	38	38	180	180										
							BA = 24.69				T/A = 16.832				283	40	2	.920	.505	11.54	6.39	17	17	60	60									
																					55	55	240	240										
	0007	B1	1	DF	L	1	18.8	16	90	F	91	114		182	40	1	.920	.505	18.21	13.24	54	54	240	240										
							BA = 24.69				T/A = 12.809				283	40	2	.920	.505	13.24	7.37	24	24	70	70									
																					78	78	310	310										
	0008	B1	1	DF	T	1	13.0	16	90	F	67	98		183	40	1	.920	.505	12.52	8.71	23	23	90	90										
							BA = 24.69				T/A = 26.787				284	27	2	.920	.505	8.71	5.21	7	7	30	30									
																					29	30	120	120										
	0009	B1	1	DF	T	1	18.2	16	90	F	91	115		182	40	1	.920	.505	17.63	12.84	47	47	200	200										
							BA = 24.69				T/A = 13.667				283	40	2	.920	.505	12.84	7.27	21	21	70	70									
																					68	68	270	270										
	0010	B1	1	DF	L	1	17.6	16	90	F	92	118		182	40	1	.920	.505	17.06	12.48	47	47	200	200										
							BA = 24.69				T/A = 14.615				283	40	2	.920	.505	12.48	7.32	21	21	70	70									
																					68	68	270	270										
	0011	B1	1	DF	T	1	15.0	16	90	F	77	105		183	40	1	.920	.505	14.49	10.30	32	32	150	150										
							BA = 24.69				T/A = 20.120				284	37	2	.920	.505	10.30	5.16	13	13	40	40									
																					45	45	190	190										
	0012	B1	1	DF	T	1	14.2	16	90	F	67	94		183	40	1	.920	.505	13.66	9.36	27	27	120	120										
							BA = 24.69				T/A = 22.451				284	27	2	.920	.505	9.36	5.13	8	8	30	30									
																					35	35	150	150										
	0013	B1	1	DF	T	1	14.9	16	90	F	74	101		183	40	1	.920	.505	14.37	10.11	32	32	150	150										
							BA = 24.69				T/A = 20.391				284	34	2	.920	.505	10.11	5.15	12	12	40	40									
																					44	44	190	190										
	0014	B1	1	DF	L	1	15.6	16	90	F	72	96		183	40	1	.920	.505	15.02	10.42	35	35	150	150										
							BA = 24.69				T/A = 18.602				284	32	2	.920	.505	10.42	5.09	11	11	30	30									
																					46	46	180	180										
PLOT							BA = 345.68				T/A = 281.425											12,198	12,185	50,501	50,501									
0007	0001	B1	1	DF	L	6	16.8	16	90	F	76	101		1xx	35						56	56	229	229										

TWP	RGE	SC	TRACT				TYPE				ACRES			PLOTS			TREES			CRUISED DATE		CuFt	BdFt															
09S	06E	01	ALL UNITS				TIMB				57.00			29			168			10/1/2024		S	W															
Tree				C				T				S						Dia		Dia		Gross	Net	Gross	Net													
Plot	No.	PF	A	Spc	S	T	DBH	FF	FF	D	Hgt	Hg	PRDVT	SG	Len	FIFI	Bark	Ao	Butt	Top	CuFt	CuFt	BdFt	BdFt														
Count						BA = 148.15						T/A = 96.571												56	56	229	229											
0007	0002	B1	1	DF	T	6	13.4	16	90	F	63	94		1xx	35						32	32	132	132														
Count						BA = 148.15						T/A = 150.496												32	32	132	132											
PLOT						BA = 296.30						T/A = 247.067												10,216	10,221	41,886	41,886											
0008	0001	B1	1	DF	T	1	12.2	16	90	F	63	97		183	40	1	.920	.505	11.74	8.10	20	20	90	90														
						BA = 24.69						T/A = 30.416												284	23	2	.920	.505	8.10	5.23	6	6	20	20				
																												26	26	110	110							
	0002	B1	1	DF	L	1	12.3	16	90	F	53	80		183	40	1	.920	.505	11.74	7.45	19	19	70	70														
						BA = 24.69						T/A = 29.923												284	13	2	.920	.505	7.45	5.14	3	3	10	10				
																												21	22	80	80							
	0003	B1	1	DF	T	1	11.1	16	90	F	54	90		183	40	1	.920	.505	10.64	7.07	16	16	70	70														
						BA = 24.69						T/A = 36.743												284	14	2	.920	.505	7.07	5.24	3	3	10	10				
																												19	19	80	80							
	0004	B1	1	DF	L	1	14.3	16	90	F	68	95		183	40	1	.920	.505	13.76	9.47	27	27	120	120														
						BA = 24.69						T/A = 22.138												284	28	2	.920	.505	9.47	5.14	8	8	30	30				
																												35	35	150	150							
	0005	B1	1	DF	L	1	17.0	16	90	F	81	105		183	40	1	.920	.505	16.42	11.69	41	41	180	180														
						BA = 24.69						T/A = 15.665																41	41	180	180							
	0006	B1	1	DF	T	1	15.1	16	90	F	79	108		183	40	1	.920	.505	14.60	10.44	32	32	150	150														
						BA = 24.69						T/A = 19.855												284	39	2	.920	.505	10.44	5.17	13	13	40	40				
																												46	45	190	190							
	0007	B1	1	DF	T	1	12.9	16	90	F	67	99		183	40	1	.920	.505	12.43	8.66	23	23	90	90														
						BA = 24.69						T/A = 27.204												284	27	2	.920	.505	8.66	5.21	7	7	30	30				
																												29	30	120	120							
	0008	B1	1	DF	T	1	11.8	16	90	F	56	87		183	40	1	.920	.505	11.31	7.49	19	19	70	70														
						BA = 24.69						T/A = 32.513												284	16	2	.920	.505	7.49	5.21	3	3	20	20				
																												22	22	90	90							
	0009	B1	1	DF	L	1	16.5	16	90	F	79	103		183	40	1	.920	.505	15.93	11.30	38	38	180	180														
						BA = 24.69						T/A = 16.628												284	39	2	.920	.505	11.30	5.10	16	16	40	40				
																												53	54	220	220							
	0010	B1	1	DF	T	1	10.3	16	90	F	46	82		183	40	1	.920	.505	9.82	6.16	13	13	60	60														
						BA = 24.69						T/A = 42.672																13	13	60	60							
	0011	B1	1	DF	T	1	12.6	16	90	F	61	91		183	40	1	.920	.505	12.10	8.18	23	23	90	90														
						BA = 24.69						T/A = 28.515												284	21	2	.920	.505	8.18	5.19	5	5	20	20				
																												28	28	110	110							
	0012	B1	1	DF	L	1	14.0	16	90	F	67	94		183	40	1	.920	.505	13.47	9.25	27	27	120	120														
						BA = 24.69						T/A = 23.097												284	27	2	.920	.505	9.25	5.15	8	8	30	30				
																												35	35	150	150							
	0013	B1	1	DF	L	1	14.7	16	90	F	67	92		183	40	1	.920	.505	14.13	9.63	30	30	120	120														
						BA = 24.69						T/A = 20.950												284	27	2	.920	.505	9.63	5.10	8	8	30	30				
																												38	38	150	150							
PLOT						BA = 320.99						T/A = 346.319																9,783	9,804	40,745	40,745							
0009	0001	B1	1	DF	L	7	16.8	16	90	F	76	101		1xx	35						56	56	229	229														
Count						BA = 172.84						T/A = 112.666																56	56	229	229							
	0002	B1	1	DF	T	3	13.4	16	90	F	63	94		1xx	35						32	32	132	132														
Count						BA = 74.07						T/A = 75.248																32	32	132	132							
PLOT						BA = 246.91						T/A = 187.914																8,707	8,707	35,660	35,660							
0010	0001	B1	1	DF	T	1	14.9	16	90	F	84	116		183	40	1	.920	.505	14.43	10.49	32	32	150	150														
						BA = 24.69						T/A = 20.391												284	40	2	.920	.505	10.49	5.83	14	14	40	40				
																												46	46	190	190							
	0002	B1	1	DF	T	1	18.9	16	90	F	94	118		182	40	1	.920	.505	18.32	13.41	54	54	240	240														
						BA = 24.69						T/A = 12.673												283	40	2	.920	.505	13.41	7.87	24	24	70	70				
																												384	12		.920	.505	7.87	5.30	2	2	10	10
																												80	80	320	320							
	0003	B1	1	DF	L	1	20.9	16	90	F	100	122		182	40	1	.920	.505	20.28	14.95	65	65	290	290														
						BA = 24.69						T/A = 10.364												283	40	2	.920	.505	14.95	9.24	30	30	120	120				
																												384	19		.920	.505	9.24	5.04	5	5	20	20

TWP	RGE	SC	TRACT				TYPE				ACRES			PLOTS			TREES		CRUISED DATE		CuFt	BdFt																									
09S	06E	01	ALL UNITS				TIMB				57.00			29			168		10/1/2024		S	W																									
Tree				C				T				Bole				Tot.				S				Dia				Dia				Gross				Net				Gross				Net			
Plot	No.	PF	A	Spc	S	T	DBH	FF	FF	D	Hgt	Hg	PRDVT	SG	Len	FIFI	Bark	Ao	Butt	Top	CuFt	CuFt	BdFt	BdFt	CuFt	CuFt	BdFt	BdFt	CuFt	CuFt	BdFt	BdFt															
0010	0004	B1	1	DF	T	1	9.7	16	90	F	42	79		184	40	1	.920	.505	9.23	5.65	101	101	430	430	12	12	40	40	12	12	40	40															
							BA = 24.69				T/A = 48.114																																				
	0005	B1	1	DF	T	1	13.2	16	90	F	67	97		183	40	1	.920	.505	12.71	8.82	23	23	90	90	7	7	30	30	29	30	120	120															
							BA = 24.69				T/A = 25.982				284	27	2	.920	.505	8.82	5.19																										
	0006	B1	1	DF	T	1	12.2	16	90	F	78	123		183	40	1	.920	.505	11.83	8.65	20	20	90	90	9	9	40	40	29	29	130	130															
							BA = 24.69				T/A = 30.416				284	38	2	.920	.505	8.65	5.30																										
	0007	B1	1	DF	L	1	15.0	16	90	F	86	118		183	40	1	.920	.505	14.54	10.61	32	32	150	150	13	13	50	50	29	29	130	130															
							BA = 24.69				T/A = 20.120				283	34	2	.920	.505	10.61	6.95																										
	0008	B1	1	DF	T	1	14.4	16	90	F	71	99		183	40	1	.920	.505	13.88	9.68	27	27	120	120	9	9	30	30	45	45	200	200															
							BA = 24.69				T/A = 21.832				284	31	2	.920	.505	9.68	5.15																										
	0009	B1	1	DF	L	1	16.5	16	90	F	97	128		183	40	1	.920	.505	16.03	11.89	36	36	150	150	41	41	180	180	63	63	270	270															
							BA = 24.69				T/A = 16.628				283	40	2	.920	.505	11.89	7.70																										
														384	17		.920	.505	7.70	5.02	3	3	20	20																							
	0010	B1	1	DF	T	1	12.3	16	90	F	72	112		183	40	1	.920	.505	11.89	8.53	20	20	90	90	8	8	30	30	63	63	270	270															
							BA = 24.69				T/A = 29.923				284	32	2	.920	.505	8.53	5.27																										
	0011	B1	1	DF	T	1	14.8	16	90	F	84	116		183	40	1	.920	.505	14.34	10.43	32	32	150	150	14	14	40	40	28	28	120	120															
							BA = 24.69				T/A = 20.668				284	40	2	.920	.505	10.43	5.82																										
PLOT							BA = 271.60				T/A = 257.112											9,733	9,729	40,689	40,689																						
0011	0001	B1	1	DF	L	4	16.8	16	90	F	76	101		1xx	35						56	56	229	229	56	56	229	229																			
				Count			BA = 98.77				T/A = 64.381																																				
	0002	B1	1	DF	T	4	13.4	16	90	F	63	94		1xx	35						32	32	132	132	32	32	132	132																			
				Count			BA = 98.77				T/A = 100.330																																				
PLOT							BA = 197.53				T/A = 164.711											6,811	6,814	27,924	27,924																						
0012	0001	B1	1	DF	T	1	10.2	16	90	F	44	77		184	40	1	.920	.505	9.70	5.93	12	12	40	40	12	12	40	40																			
							BA = 24.69				T/A = 43.513																																				
	0002	B1	1	DF	L	1	10.5	16	90	F	46	79		183	40	1	.920	.505	10.00	6.20	15	15	60	60	15	15	60	60																			
							BA = 24.69				T/A = 41.062																																				
	0003	B1	1	DF	L	1	8.4	16	90	F	30	79		184	30	1	.920	.505	7.99	5.39	6	6	30	30	6	6	30	30																			
							BA = 24.69				T/A = 64.159																																				
	0004	B1	1	DF	T	1	9.4	16	90	F	42	84		184	40	1	.920	.505	8.96	5.63	10	10	40	40	10	10	40	40																			
							BA = 24.69				T/A = 51.234																																				
	0005	B1	1	DF	T	1	8.4	16	90	F	31	78		184	31	1	.920	.505	7.99	5.40	6	6	30	30	6	6	30	30																			
							BA = 24.69				T/A = 64.159																																				
	0006	B1	1	DF	L	1	14.1	16	90	F	66	92		183	40	1	.920	.505	13.55	9.25	27	27	120	120	8	8	30	30	35	35	150	150															
							BA = 24.69				T/A = 22.771				284	26	2	.920	.505	9.25	5.13																										
	0007	B1	1	DF	L	1	18.3	16	90	F	68	85		183	40	1	.920	.505	17.55	11.69	45	45	180	180	11	11	30	30	55	56	210	210															
							BA = 24.69				T/A = 13.518				284	27	2	.920	.505	11.69	5.21																										
	0008	B1	1	DF	L	1	11.9	16	90	F	53	81		183	40	1	.920	.505	11.37	7.30	19	19	70	70	3	3	10	10	21	22	80	80															
							BA = 24.69				T/A = 31.969				284	13	2	.920	.505	7.30	5.17																										
PLOT							BA = 197.53				T/A = 332.385											4,618	4,651	18,915	18,915																						
0013	0001	B1	1	DF	L	5	16.8	16	90	F	76	101		1xx	35						56	56	229	229	56	56	229	229																			
				Count			BA = 123.46				T/A = 80.476																																				
	0002	B1	1	DF	T	4	13.4	16	90	F	63	94		1xx	35						32	32	132	132																							

TWP	RGE	SC	TRACT				TYPE				ACRES				PLOTS				TREES				CRUISED DATE		CuFt	BdFt
09S	06E	01	ALL UNITS				TIMB				57.00				29				168				10/1/2024		S	W
Tree				C				T				S				Dia				Dia		Gross	Net	Gross	Net	
Plot	No.	PF	A	Spc	S	T	DBH	FF	FF	D	Hgt	Hg	PRDVT	SG	Len	FIFI	Bark	Ao	Butt	Top	CuFt	CuFt	BdFt	BdFt		
0016	0006	B1	1	DF	T	1	13.2	16	90	F	53	76		183	40	1	.920	.505	12.57	7.79	21	21	70	70		
						BA = 24.69				T/A = 25.982				284	13	2	.920	.505	7.79	5.07	3	3	10	10		
																		24	24	80	80					
	0007	B1	1	DF	T	1	15.2	16	90	F	72	97		183	40	1	.920	.505	14.64	10.19	32	32	150	150		
						BA = 24.69				T/A = 19.594				284	32	2	.920	.505	10.19	5.11	11	11	30	30		
																		43	43	180	180					
	0008	B1	1	DF	L	1	15.5	16	90	F	61	80		183	40	1	.920	.505	14.82	9.60	30	30	120	120		
						BA = 24.69				T/A = 18.843				284	20	2	.920	.505	9.60	5.26	6	6	20	20		
																		36	36	140	140					
	0009	B1	1	DF	T	1	12.2	16	90	F	53	79		183	40	1	.920	.505	11.65	7.41	19	19	70	70		
						BA = 24.69				T/A = 30.416				284	13	2	.920	.505	7.41	5.15	3	3	10	10		
																		21	22	80	80					
0010	B1	1	DF	L	1	13.8	16	90	F	58	81		183	40	1	.920	.505	13.19	8.53	25	25	90	90			
					BA = 24.69				T/A = 23.772				284	18	2	.920	.505	8.53	5.08	4	4	20	20			
																	30	29	110	110						
0011	B1	1	DF	T	1	11.1	16	90	F	51	84		183	40	1	.920	.505	10.61	6.84	15	15	60	60			
					BA = 24.69				T/A = 36.743								15	15	60	60						
PLOT						BA = 271.60				T/A = 293.011								7,289	7,294	27,466	27,466					
0017	0001	B1	1	DF	L	9	16.8	16	90	F	76	101		1xx	35					56	56	229	229			
						BA = 222.22				T/A = 144.857								56	56	229	229					
	0002	B1	1	DF	T	6	13.4	16	90	F	63	94		1xx	35					32	32	132	132			
						BA = 148.15				T/A = 150.496								32	32	132	132					
PLOT						BA = 370.37				T/A = 295.352								12,915	12,918	52,924	52,924					
0018	0001	B1	1	DF	L	1	18.7	16	90	F	81	101		182	40	1	.920	.505	18.05	12.75	51	51	200	200		
						BA = 24.69				T/A = 12.946				284	29	2	.920	.505	12.75	7.83	15	15	50	50		
																		66	66	250	250					
	0002	B1	1	SF	L	1	12.3	16	90	F	55	84		183	40	1	.944	.491	12.06	7.80	21	21	70	70		
						BA = 24.69				T/A = 29.923				284	15	2	.944	.491	7.80	5.30	3	3	20	20		
																		24	24	90	90					
	0003	B1	1	WH	L	1	11.8	16	90	F	54	82		183	40	1	.944	.532	11.60	7.57	19	19	70	70		
						BA = 24.69				T/A = 32.513				284	14	2	.944	.532	7.57	5.31	3	3	10	10		
																		21	22	80	80					
	0004	B1	1	DF	T	1	13.2	16	90	F	54	77		183	40	1	.920	.505	12.58	7.89	21	21	70	70		
						BA = 24.69				T/A = 25.982				284	14	2	.920	.505	7.89	5.08	3	3	10	10		
																		24	24	80	80					
	0005	B1	1	DF	T	1	17.4	16	90	F	82	105		183	40	1	.920	.505	16.81	11.99	41	41	180	180		
						BA = 24.69				T/A = 14.953				284	40	2	.920	.505	11.99	5.52	16	16	40	40		
																		57	57	220	220					
	0006	B1	1	DF	L	1	11.7	16	90	F	46	70		183	40	1	.920	.505	11.12	6.45	17	17	60	60		
						BA = 24.69				T/A = 33.071								17	17	60	60					
PLOT						BA = 148.15				T/A = 149.387								4,314	4,319	15,883	15,883					
0019	0001	B1	1	DF	L	4	16.8	16	90	F	76	101		1xx	35					56	56	229	229			
						BA = 98.77				T/A = 64.381								56	56	229	229					
	0002	B1	1	DF	T	6	13.4	16	90	F	63	94		1xx	35					32	32	132	132			
						BA = 148.15				T/A = 150.496								32	32	132	132					
PLOT						BA = 246.91				T/A = 214.876								8,417	8,422	34,527	34,527					
0020	0001	B1	1	DF	L	1	16.9	16	90	F	92	120		182	40	1	.920	.505	16.39	12.02	44	44	200	200		
						BA = 24.69				T/A = 15.851				283	40	2	.920	.505	12.02	7.19	21	21	70	70		
																		65	65	270	270					
	0002	B1	1	DF	T	1	16.3	16	90	F	90	120		183	40	1	.920	.505	15.80	11.57	38	38	180	180		
						BA = 24.69				T/A = 17.039				283	40	2	.920	.505	11.57	6.82	17	17	60	60		
																		55	55	240	240					
	0003	B1	1	DF	L	1	17.0	16	90	F	85	111		183	40	1	.920	.505	16.45	11.85	41	41	180	180		
						BA = 24.69				T/A = 15.665				283	40	2	.920	.505	11.85	6.11	17	17	60	60		
														58	58	240	240									
0004	B1	1	DF	T	1	13.0	16	90	F	59	86		183	40	1	.920	.505	12.46	8.24	23	23	90	90			

TWP	RGE	SC	TRACT				TYPE				ACRES				PLOTS				TREES				CRUISED DATE				CuFt	BdFt							
09S	06E	01	ALL UNITS				TIMB				57.00				29				168				10/1/2024				S	W							
Tree				C				T				Bole				Tot.				S				Dia				Dia				Gross	Net	Gross	Net
Plot	No.	PF	A	Spc	S	T	DBH	FF	FF	D	Hgt	Hg	PRDVT	SG	Len	FIFI	Bark	Ao	Butt	Top	CuFt	CuFt	BdFt	BdFt											
0020	0005	B1 1	DF	L	1	BA = 24.69				T/A = 26.787				284	19	2	.920	.505	8.24	5.15		5	5	20	20										
						15.8 16 90				F	79	105	183	40	1	.920	.505	15.26	10.87	27	28	110	110												
						BA = 24.69				T/A = 18.134				284	39	2	.920	.505	10.87	5.13	13	13	40	40											
																						49	48	190	190										
	0006	B1 1	DF	L	1	20.4 16 90				F	95	116	182	40	1	.920	.505	19.77	14.44	61	61	290	290												
						BA = 24.69				T/A = 10.878				283	40	2	.920	.505	14.44	8.36	28	28	90	90											
														384	14		.920	.505	8.36	5.03	3	3	10	10											
																						93	93	390	390										
	0007	B1 1	DF	T	1	15.3 16 90				F	78	105	183	40	1	.920	.505	14.78	10.52	32	32	150	150												
						BA = 24.69				T/A = 19.339				284	38	2	.920	.505	10.52	5.15	13	13	40	40											
																						45	45	190	190										
																						54	54	240	240										
	0008	B1 1	DF	T	1	19.6 16 90				F	85	105	182	40	1	.920	.505	18.94	13.51	22	22	60	60												
						BA = 24.69				T/A = 11.784				283	40	2	.920	.505	13.51	6.28	76	76	300	300											
																						32	32	150	150										
																						45	45	190	190										
0009	B1 1	DF	T	1	14.7 16 90				F	77	106	183	40	1	.920	.505	14.20	10.12	32	32	150	150													
					BA = 24.69				T/A = 20.950				284	37	2	.920	.505	10.12	5.17	13	13	40	40												
																					45	45	190	190											
																					47	47	200	200											
0010	B1 1	DF	L	1	17.7 16 90				F	94	121	182	40	1	.920	.505	17.17	12.61	21	21	70	70													
					BA = 24.69				T/A = 14.450				283	40	2	.920	.505	12.61	7.61	3	3	10	10												
													384	13		.920	.505	7.61	5.13	71	71	280	280												
																					29	29	150	150											
0011	B1 1	DF	L	1	14.3 16 90				F	84	119	183	40	1	.920	.505	13.86	10.11	14	14	40	40													
					BA = 24.69				T/A = 22.138				284	40	2	.920	.505	10.11	5.80	43	43	190	190												
																					38	38	180	180											
																					15	15	40	40											
0012	B1 1	DF	T	1	16.1 16 90				F	78	103	183	40	1	.920	.505	15.54	11.01	15	15	40	40													
					BA = 24.69				T/A = 17.465				284	38	2	.920	.505	11.01	5.11	53	53	220	220												
																					47	47	200	200											
																					21	21	70	70											
0013	B1 1	DF	T	1	17.6 16 90				F	96	124	182	40	1	.920	.505	17.08	12.60	3	3	20	20													
					BA = 24.69				T/A = 14.615				283	40	2	.920	.505	12.60	7.85	71	71	290	290												
													384	15		.920	.505	7.85	5.14	3	3	20	20												
																					32	32	150	150											
0014	B1 1	DF	T	1	14.7 16 90				F	88	122	183	40	1	.920	.505	14.26	10.48	15	15	60	60													
					BA = 24.69				T/A = 20.950				283	40	2	.920	.505	10.48	6.34	47	47	210	210												
																					54	54	240	240											
																					25	25	90	90											
0015	B1 1	DF	L	1	19.4 16 90				F	96	120	182	40	1	.920	.505	18.82	13.81	4	4	20	20													
					BA = 24.69				T/A = 12.029				283	40	2	.920	.505	13.81	8.28	83	83	350	350												
																					38	38	180	180											
																					17	17	60	60											
0016	B1 1	DF	T	1	16.5 16 90				F	90	118	183	40	1	.920	.505	16.00	11.70	55	55	240	240													
					BA = 24.69				T/A = 16.628				283	40	2	.920	.505	11.70	6.85																
																					15,045	15,038	62,887	62,887											
					PLOT						BA = 395.06				T/A = 274.703																				

0021	0001	B1 1	DF	L	7	16.8 16 90				F	76	101	1xx	35									56	56	229	229
				Count		BA = 172.84				T/A = 112.666												56	56	229	229	
	0002	B1 1	DF	T	5	13.4 16 90				F	63	94	1xx	35									32	32	132	132
				Count		BA = 123.46				T/A = 125.413												32	32	132	132	
PLOT						BA = 296.30				T/A = 238.079												10,313	10,316	42,263	42,263	

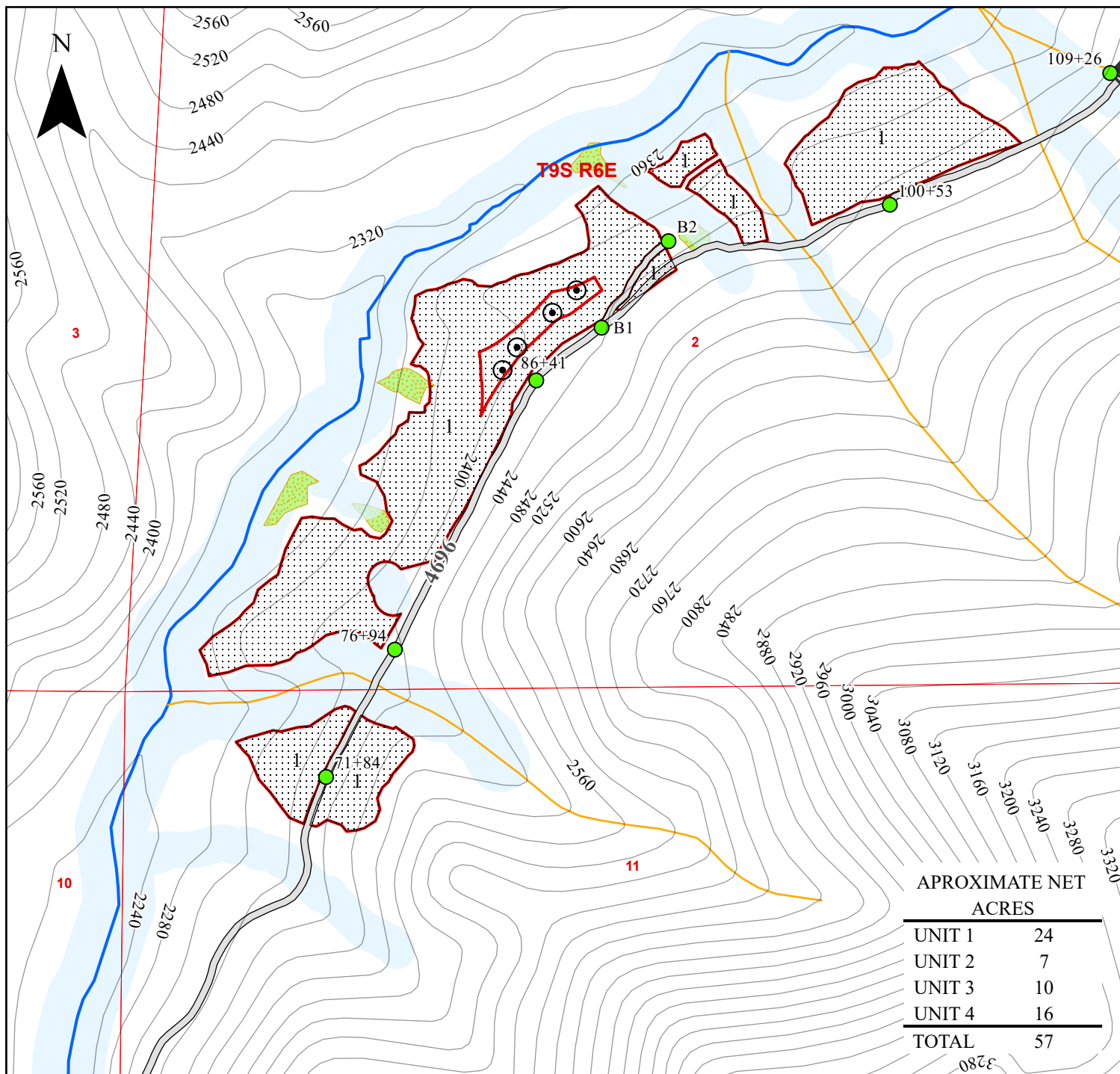
0022	0001	B1 1	DF	T	1	16.7 16 90				F	78	101	183	40	1	.920	.505	16.12	11.37	41	41	180	180		
						BA = 24.69				T/A = 16.232				284	38	2	.920	.505	11.37	5.08	15	15	40	40	
																						56	56	220	220
																						32	32	150	150
	0002	B1 1	DF	T	1	14.6 16 90				F	76	105	183	40	1	.920	.505	14.10	10.02	12	12	40	40		
						BA = 24.69				T/A = 21.238				284	36	2	.920	.505	10.02	5.17	45	44	190	190	
																						61	61	290	290
																						28	28	90	90
	0003	B1 1	DF	L	1	20.1 16 90				F	96	118	182	40	1	.920	.505	19.49	14.28	4	4	20	20		
						BA = 24.69				T/A = 11.205				283	40	2	.920	.505	14.28	8.44	93	93	400	400	
																						41	41	180	180
																						16	16	40	40
	0004	B1 1	DF	L	1	17.0 16 90				F	83	107	183	40	1	.920	.505	16.44	11.78	57	57	220	220		
						BA = 24.69				T/A = 15.665				284	40	2	.920	.505	11.78	5.72					
																						41	41	180	180
																						41	41	180	180
0005	B1 1	DF	L	1	17.3 16 90				F	78	100	183	40	1	.920	.505	16.69	11.74							

TWP	RGE	SC	TRACT				TYPE				ACRES				PLOTS				TREES				CRUISED DATE				CuFt	BdFt							
09S	06E	01	ALL UNITS				TIMB				57.00				29				168				10/1/2024				S	W							
Tree				C				T				Bole				Tot.				S				Dia				Dia				Gross	Net	Gross	Net
Plot	No.	PF	A	Spc	S	T	DBH	FF	FF	D	Hgt	Hg	PRDVT	SG	Len	FIFI	Bark	Ao	Butt	Top	CuFt	CuFt	BdFt	BdFt											
0022	0006	B1 1	DF	T	1	BA = 24.69				T/A = 15.126				284	38	2	.920	.505	11.74	5.05	15	15	40	40											
						11.0 16 90				F	52	86	183	40	1	.920	.505	10.53	6.89	15	15	60	60												
						BA = 24.69				T/A = 37.414				284	12	2	.920	.505	6.89	5.23	2	2	10	10											
																						17	17	70	70										
	0007	B1 1	DF	L	1	16.7 16 90				F	65	84	183	40	1	.920	.505	16.00	10.57	35	35	150	150												
						BA = 24.69				T/A = 16.232				284	24	2	.920	.505	10.57	5.24	8	8	30	30											
																						44	43	180	180										
																						19	19	70	70										
	0008	B1 1	DF	L	1	11.5 16 90				F	57	91	183	40	1	.920	.505	11.04	7.43	19	19	70	70												
						BA = 24.69				T/A = 34.231				284	17	2	.920	.505	7.43	5.24	3	3	20	20											
																		22	22	90	90														
																		16	16	70	70														
0009	B1 1	DF	T	1	11.4 16 90				F	52	83	183	40	1	.920	.505	10.90	7.03	16	16	70	70													
					BA = 24.69				T/A = 34.834				284	12	2	.920	.505	7.03	5.20	2	2	10	10												
																					19	18	80	80											
																					47	47	200	200											
0010	B1 1	DF	L	1	18.1 16 90				F	93	119	182	40	1	.920	.505	17.55	12.84	47	47	200	200													
					BA = 24.69				T/A = 13.818				283	40	2	.920	.505	12.84	7.56	21	21	70	70												
													384	12		.920	.505	7.56	5.11	2	2	10	10												
																					71	70	280	280											
0011	B1 1	DF	L	1	18.8 16 90				F	66	82	183	40	1	.920	.505	17.99	11.79	45	45	180	180													
					BA = 24.69				T/A = 12.809				284	25	2	.920	.505	11.79	5.18	10	10	30	30												
																					55	55	210	210											
																					9,062	9,058	36,830	36,830											
PLOT				BA = 271.60				T/A = 228.806																											
0023	0001	B1 1	DF	T	1	15.1 16 90				F	83	114	183	40	1	.920	.505	14.62	10.58	32	32	150	150												
						BA = 24.69				T/A = 19.855				284	40	2	.920	.505	10.58	5.68	14	14	40	40											
																						46	46	190	190										
																						54	54	240	240										
	0002	B1 1	DF	L	1	19.0 16 90				F	93	117	182	40	1	.920	.505	18.41	13.44	24	24	70	70												
						BA = 24.69				T/A = 12.540				283	40	2	.920	.505	13.44	7.73	2	2	10	10											
																						80	80	320	320										
																						50	50	240	240										
	0003	B1 1	DF	T	1	18.4 16 90				F	102	130	182	40	1	.920	.505	17.88	13.30	25	25	90	90												
						BA = 24.69				T/A = 13.372				283	40	2	.920	.505	13.30	8.76	5	5	20	20											
																						80	81	350	350										
																						41	41	180	180										
	0004	B1 1	DF	L	1	16.9 16 90				F	90	117	183	40	1	.920	.505	16.38	11.96	17	17	60	60												
						BA = 24.69				T/A = 15.851				283	40	2	.920	.505	11.96	6.91															
																						58	58	240	240										
																						47	47	200	200										
	0005	B1 1	DF	T	1	18.1 16 90				F	87	110	182	40	1	.920	.505	17.51	12.63	20	20	60	60												
						BA = 24.69				T/A = 13.818				283	40	2	.920	.505	12.63	6.57															
																						67	67	260	260										
																						21	21	70	70										
0006	B1 1	DF		1	18.0 16 90				F	94	120	283	40	2	.920	.505	12.81	7.68	3	3	10	10													
					BA = 24.69				T/A = 13.972				384	13		.920	.505	7.68	5.12																
													182	40	1	.920	.505	17.46	12.81	47	47	200	200												
																					71	71	280	280											
0007	B1 1	DF	T	1	13.9 16 90				F	71	101	183	40	1	.920	.505	13.40	9.40	27	27	120	120													
					BA = 24.69				T/A = 23.431				284	31	2	.920	.505	9.40	5.18	9	9	30	30												
																					36	36	150	150											
																					32	32	150	150											
0008	B1 1	DF	L	1	14.5 16 90				F	82	115	183	40	1	.920	.505	14.04	10.18	14	14	40	40													
					BA = 24.69				T/A = 21.532				284	40	2	.920	.505	10.18	5.52																
																					46	46	190	190											
																					35	35	150	150											
0009	B1 1	DF	T	1	16.0 16 90				F	76	100	183	40	1	.920	.505	15.43	10.86	12	12	40	40													
					BA = 24.69				T/A = 17.684				284	36	2	.920	.505	10.86	5.10																
																					48	47	190	190											
																					38	38	180	180											
0010	B1 1	DF	T	1	16.4 16 90				F	85	112	183	40	1	.920	.505	15.87	11.47	17	17	60	60													
					BA = 24.69				T/A = 16.832				283	40	2	.920	.505	11.47	6.07																
																					55	55	240	240											
																					65	65	290	290											
0011	B1 1	DF	L	1	20.8 16 90				F	101	124	182	40	1	.920	.505	20.19	14.91	30	30	120	120													
					BA = 24.69				T/A = 10.464				283	40	2	.920	.505	14.91	9.35																
													384	20		.920	.505	9.35	5.05	6	6	20	20												
																					101	101	430	430											
PLOT				BA = 271.60				T/A = 179.350																											
0024	0001	B1 1	DF	L	1	20.6 16 90				F	105	129	182	40	1	.920	.505	20.02	14.89	65	65	290	290												
						BA = 24.69				T/A = 10.668				283	40	2	.920	.505	14.89	9.80	30	30	120	120											
														384	24		.920	.505	9.80	5.08	7	7	30	30											
																						102	102	440	440										
0002	B1 1	DF	L	1	22.7 16 90				F	109	130	182	40	1	.920	.505	22.07	16.46	81	81	400	400													

TWP	RGE	SC	TRACT				TYPE				ACRES				PLOTS				TREES				CRUISED DATE				CuFt	BdFt	
09S	06E	01	ALL UNITS				TIMB				57.00				29				168				10/1/2024				S	W	
Tree				C		T		Bole		Tot.		S						Dia		Dia		Gross		Net		Gross		Net	
Plot	No.	PF	A	Spc	S	T	DBH	FF	FF	D	Hgt	Hg	PRDVT	SG	Len	FIFI	Bark	Ao	Butt	Top	CuFt	CuFt	BdFt	BdFt					
0024							BA = 24.69					T/A = 8.785				283	40	2	.920	.505	16.46	11.00	41	41	180	180			
														384	28		.920	.505	11.00	5.02	11	11	30	30					
																					133	133	610	610					
	0003	B1	1	DF	L	1	18.8	16	90	F	98	124		182	40	1	.920	.505	18.25	13.46	54	54	240	240					
							BA = 24.69					T/A = 12.809				283	40	2	.920	.505	13.46	8.40	25	25	90	90			
														384	17		.920	.505	8.40	5.11	4	4	20	20					
																					83	84	350	350					
	0004	B1	1	DF	T	1	14.9	16	90	F	85	118		183	40	1	.920	.505	14.44	10.52	32	32	150	150					
							BA = 24.69					T/A = 20.391				284	40	2	.920	.505	10.52	5.97	14	14	40	40			
																					46	46	190	190					
	0005	B1	1	DF	T	1	18.5	16	90	F	93	118		182	40	1	.920	.505	17.93	13.11	50	50	240	240					
							BA = 24.69					T/A = 13.227				283	40	2	.920	.505	13.11	7.64	24	24	70	70			
														384	12		.920	.505	7.64	5.09	2	2	10	10					
																					76	76	320	320					
	0006	B1	1	DF	L	1	20.7	16	90	F	99	121		182	40	1	.920	.505	20.08	14.78	65	65	290	290					
							BA = 24.69					T/A = 10.565				283	40	2	.920	.505	14.78	9.05	30	30	120	120			
														384	18		.920	.505	9.05	5.04	5	5	20	20					
																					100	100	430	430					
	0007	B1	1	DF	L	1	18.2	16	90	F	91	115		182	40	1	.920	.505	17.63	12.84	47	47	200	200					
							BA = 24.69					T/A = 13.667				283	40	2	.920	.505	12.84	7.27	21	21	70	70			
																					68	68	270	270					
	0008	B1	1	DF	T	1	13.4	16	90	F	70	102		183	40	1	.920	.505	12.92	9.07	25	25	120	120					
							BA = 24.69					T/A = 25.212				284	30	2	.920	.505	9.07	5.20	9	9	30	30			
																					33	34	150	150					
	0009	B1	1	DF	T	1	16.5	16	90	F	85	112		183	40	1	.920	.505	15.97	11.54	38	38	180	180					
							BA = 24.69					T/A = 16.628				283	40	2	.920	.505	11.54	6.07	17	17	60	60			
																					55	55	240	240					
	0010	B1	1	DF	T	1	17.1	16	90	F	87	113		183	40	1	.920	.505	16.56	11.99	41	41	180	180					
							BA = 24.69					T/A = 15.482				283	40	2	.920	.505	11.99	6.47	17	17	60	60			
																					58	58	240	240					
	0011	B1	1	DF	L	1	19.0	16	90	F	98	123		182	40	1	.920	.505	18.44	13.60	54	54	240	240					
							BA = 24.69					T/A = 12.540				283	40	2	.920	.505	13.60	8.45	25	25	90	90			
														384	17		.920	.505	8.45	5.10	4	4	20	20					
																					83	84	350	350					
	0012	B1	1	DF	L	1	19.9	16	90	F	94	116		182	40	1	.920	.505	19.29	14.07	61	61	290	290					
							BA = 24.69					T/A = 11.432				283	40	2	.920	.505	14.07	8.08	28	28	90	90			
														384	13		.920	.505	8.08	5.04	3	3	10	10					
																					92	93	390	390					
	0013	B1	1	DF	T	1	16.7	16	90	F	91	120		283	40	2	.920	.505	11.86	7.02	19	19	70	70					
							BA = 24.69					T/A = 16.232				183	40	1	.920	.505	16.19	11.86	41	41	180	180			
																					60	60	250	250					
	0014	B1	1	DF	T	1	13.7	16	90	F	73	105		183	40	1	.920	.505	13.23	9.37	27	27	120	120					
							BA = 24.69					T/A = 24.120				284	33	2	.920	.505	9.37	5.20	10	10	40	40			
																					37	37	160	160					
	0015	B1	1	DF	L	1	19.9	16	90	F	104	129		182	40	1	.920	.505	19.34	14.38	61	61	290	290					
							BA = 24.69					T/A = 11.432				283	40	2	.920	.505	14.38	9.45	30	30	120	120			
														384	23		.920	.505	9.45	5.10	7	7	20	20					
																					98	98	430	430					
PLOT						BA = 370.37					T/A = 223.192											14,988	14,998	64,045	64,045				
0025	0001	B1	1	DF	L	5	16.8	16	90	F	76	101		1xx	35						56	56	229	229					
				Count			BA = 123.46					T/A = 80.476										56	56	229	229				
	0002	B1	1	DF	T	7	13.4	16	90	F	63	94		1xx	35						32	32	132	132					
				Count			BA = 172.84					T/A = 175.578										32	32	132	132				
PLOT						BA = 296.30					T/A = 256.054											10,119	10,126	41,508	41,508				
0026	0001	B1	1	DF	T	1	16.5	16	90	F	75	98		183	40	1	.920	.505	15.90	11.11	38	38	180	180					
							BA = 24.69					T/A = 16.628				284	35	2	.920	.505	11.11	5.07	14	14	40	40			
																					52	52	220	220					
	0002	B1	1	DF	L	1	18.0	16	90	F	89	113		182	40	1	.920	.505	17.43	12.64	47	47	200	200					
							BA = 24.69					T/A = 13.972				283	40	2	.920	.505	12.64	6.91	20	20	60	60			
																					67	67	260	260					
	0003	B1	1	DF	T	1	12.9	16	90	F	69	102		183	40	1	.920	.505	12.44	8.75	23	23	90	90					
							BA = 24.69					T/A = 27.204				284	29	2	.920	.505	8.75	5.22	7	7	30	30			

TWP	RGE	SC	TRACT				TYPE				ACRES				PLOTS				TREES				CRUISED DATE				CuFt	BdFt							
09S	06E	01	ALL UNITS				TIMB				57.00				29				168				10/1/2024				S	W							
Tree				C				T				Bole				Tot.				S				Dia				Dia				Gross	Net	Gross	Net
Plot	No.	PF	A	Spc	S	T	DBH	FF	FF	D	Hgt	Hg	PRDVT	SG	Len	FIFI	Bark	Ao	Butt	Top	CuFt	CuFt	BdFt	BdFt											
0026	0004	B1	1	DF	T	1	12.3	16	90	F	66	101		183	40	1	.920	.505	11.86	8.29	30	30	120	120											
							BA = 24.69				T/A = 29.923				284	26	2	.920	.505	8.29	5.24	6	6	30	30										
																			26	26	120	120													
	0005	B1	1	DF	L	1	20.7	16	90	F	96	117		182	40	1	.920	.505	20.07	14.68	65	65	290	290											
							BA = 24.69				T/A = 10.565				283	40	2	.920	.505	14.68	8.59	28	28	90	90										
															384	15		.920	.505	8.59	5.02	4	4	20	20										
	0006	B1	1	DF	T	1	20.2	16	90	F	93	114		182	40	1	.920	.505	19.57	14.24	61	61	290	290											
							BA = 24.69				T/A = 11.095				283	40	2	.920	.505	14.24	7.97	27	27	70	70										
															384	12		.920	.505	7.97	5.02	2	2	10	10										
	0007	B1	1	DF	T	1	17.8	16	90	F	88	113		182	40	1	.920	.505	17.23	12.48	47	47	200	200											
							BA = 24.69				T/A = 14.288				283	40	2	.920	.505	12.48	6.71	20	20	60	60										
																			67	67	260	260													
	0008	B1	1	DF	L	1	14.0	16	90	F	67	94		183	40	1	.920	.505	13.47	9.25	27	27	120	120											
							BA = 24.69				T/A = 23.097				284	26	2	.920	.505	9.25	5.34	8	8	30	30										
																			35	35	150	150													
0009	B1	1	SF	L	1	19.4	16	90	F	85	105		182	40	1	.944	.491	19.23	13.69	58	58	240	240												
						BA = 24.69				T/A = 12.029				283	40	2	.944	.491	13.69	6.41	22	22	60	60											
																		80	80	300	300														
PLOT						BA = 222.22				T/A = 158.802								8,141				8,140				33,266		33,266							
0027	0001	B1	1	DF	L	7	16.8	16	90	F	76	101		1xx	35									56	56	229	229								
							Count				BA = 172.84				T/A = 112.666								56	56	229	229									
	0002	B1	1	DF	T	5	13.4	16	90	F	63	94		1xx	35									32	32	132	132								
							Count				BA = 123.46				T/A = 125.413								32	32	132	132									
PLOT						BA = 296.30				T/A = 238.079								10,313				10,316				42,263		42,263							
0028	0001	B1	1	DF	L	1	20.9	16	90	F	87	106		182	40	1	.920	.505	20.20	14.44	65	65	290	290											
							BA = 24.69				T/A = 10.364				283	40	2	.920	.505	14.44	6.86	25	25	60	60										
																			90	90	350	350													
	0002	B1	1	DF	L	1	21.9	16	90	F	93	112		182	40	1	.920	.505	21.20	15.36	73	73	360	360											
							BA = 24.69				T/A = 9.439				283	40	2	.920	.505	15.36	8.32	32	32	90	90										
																			104	105	450	450													
	0003	B1	1	DF	L	1	18.8	16	90	F	89	112		182	40	1	.920	.505	18.20	13.16	54	54	240	240											
							BA = 24.69				T/A = 12.809				283	40	2	.920	.505	13.16	7.02	24	24	70	70										
																			78	78	310	310													
	0004	B1	1	DF	L	1	25.3	16	90	F	85	99		182	40	1	.920	.505	24.41	17.17	94	94	460	460											
							BA = 24.69				T/A = 7.073				283	40	2	.920	.505	17.17	6.66	35	35	60	60										
																			130	129	520	520													
	0005	B1	1	DF	T	1	19.5	16	90	F	83	103		182	40	1	.920	.505	18.83	13.35	54	54	240	240											
							BA = 24.69				T/A = 11.906				284	40	2	.920	.505	13.35	5.78	21	21	40	40										
																			75	75	280	280													
	0006	B1	1	DF	L	1	21.2	16	90	F	83	100		182	40	1	.920	.505	20.46	14.43	65	65	290	290											
							BA = 24.69				T/A = 10.073				284	40	2	.920	.505	14.43	5.82	24	24	40	40										
																			89	89	330	330													
	0007	B1	1	DF	L	1	21.0	16	90	F	91	111		182	40	1	.920	.505	20.32	14.69	65	65	290	290											
							BA = 24.69				T/A = 10.265				283	40	2	.920	.505	14.69	7.75	27	27	70	70										
																			92	92	360	360													
	0008	B1	1	DF	T	1	14.3	16	90	F	66	92		183	40	1	.920	.505	13.74	9.36	27	27	120	120											
							BA = 24.69				T/A = 22.138				284	26	2	.920	.505	9.36	5.12	8	8	30	30										
																			35	35	150	150													
0009	B1	1	DF	L	1	23.0	16	90	F	83	98		182	40	1	.920	.505	22.18	15.57	77	77	360	360												
						BA = 24.69				T/A = 8.558				284	40	2	.920	.505	15.57	5.86	27	27	40	40											
																		105	104	400	400														
0010	B1	1	DF	L	1	16.8	16	90	F	63	80		183	40	1	.920	.505	16.07	10.44	39	39	150	150												
						BA = 24.69				T/A = 16.040				284	22	2	.920	.505	10.44	5.23	7	7	20	20											
																		46	46	170	170														
0011	B1	1	DF	T	1	9.8	16	90	F	41	75		184	40	1	.920	.505	9.32	5.52	12	12	40	40												
						BA = 24.69				T/A = 47.137								12	12	40	40														
0012	B1	1	DF	L	1	16.8	16	90	F	84	110		183	40	1	.920	.505	16.25	11.69	41	41	180	180												
						BA = 24.69				T/A = 16.040				284	40	2	.920	.505	11.69	5.91	16	16	40	40											

TWP	RGE	SC	TRACT				TYPE				ACRES			PLOTS			TREES			CRUISED DATE		CuFt	BdFt		
09S	06E	01	ALL UNITS				TIMB				57.00			29			168			10/1/2024		S	W		
Tree					C				T	Bole	Tot.	S			Dia			Dia	Gross	Net	Gross	Net			
Plot	No .	PF	A	Spc	S	T	DBH	FF	FF	D	Hgt	Hg	PRDVT	SG	Len	FIFI	Bark	Ao	Butt	Top	CuFt	CuFt	BdFt	BdFt	
0028	0013	B1	1	DF	T	1	14.6	16	90	F	71	98		183	40	1	.920	.505	14.07	9.80	57	57	220	220	
						BA = 24.69				T/A = 21.238				284	31	2	.920	.505	9.80	5.14	30	30	120	120	
																						9	9	30	30
																						39	39	150	150
	0014	B1	1	DF	L	1	20.8	16	90	F	96	117		182	40	1	.920	.505	20.16	14.75	65	65	290	290	
						BA = 24.69				T/A = 10.464				283	40	2	.920	.505	14.75	8.61	28	28	90	90	
														384	15		.920	.505	8.61	5.02	4	4	20	20	
																						97	97	400	400
																						12,278	12,292	48,133	48,133
PLOT						BA = 345.68				T/A = 213.543															
0029	0001	B1	1	DF	L	5	16.8	16	90	F	76	101		1xx	35					56	56	229	229		
						Count				BA = 123.46				T/A = 80.476								56	56	229	229
	0002	B1	1	DF	T	5	13.4	16	90	F	63	94		1xx	35					32	32	132	132		
						Count				BA = 123.46				T/A = 125.413								32	32	132	132
PLOT						BA = 246.91				T/A = 205.889												8,513	8,517	34,905	34,905
TYPE						BA = 271.61				T/A = 224.660												9,376	9,380	38,386	38,386



Legend

- Timber Sale Boundary
- No Harvest Buffer
- Special Habitat Protection Area
- DTR
- Project Points
- ↖ Yarding Corridor
- Ground
- USFS Road
- Stream Class 1
- Stream Class 4
- Contours

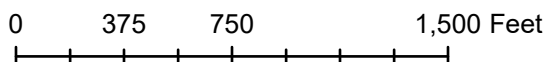
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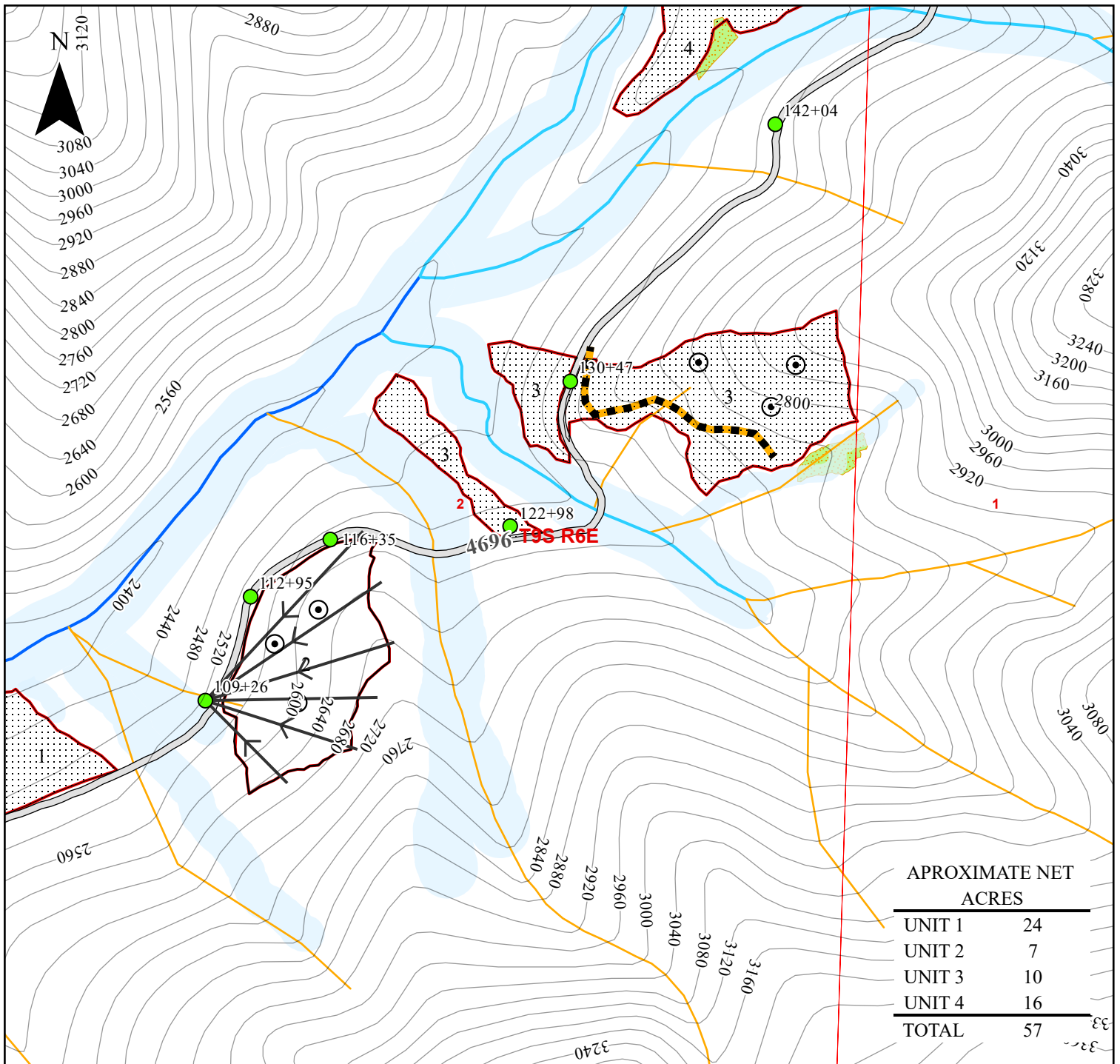
FOR TIMBER SALE CONTRACT #NC-341-2026-GF9A23-01
HUMBUG GNA
PORTIONS OF SECTIONS 1, 2, 11 OF T9S, R6E, W.M. MARION
COUNTY, OREGON
USFS DETROIT DISTRICT, WILLAMETTE NATIONAL FOREST
North Cascade District GIS

July, 2025

This product is for informational use and may not be
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1:8,000





APROXIMATE NET ACRES	
UNIT 1	24
UNIT 2	7
UNIT 3	10
UNIT 4	16
TOTAL	57

- Legend
- Timber Sale Boundary
 - No Harvest Buffer
 - Special Habitat Protection Area
 - DTR
 - Project Points
 - Y Yarding Corridor
 - Cable
 - Ground
 - USFS Road
 - New Construct Temp Road
 - Stream Class 1
 - Stream Class 2
 - Stream Class 4
 - Contours

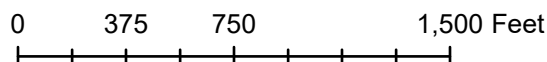
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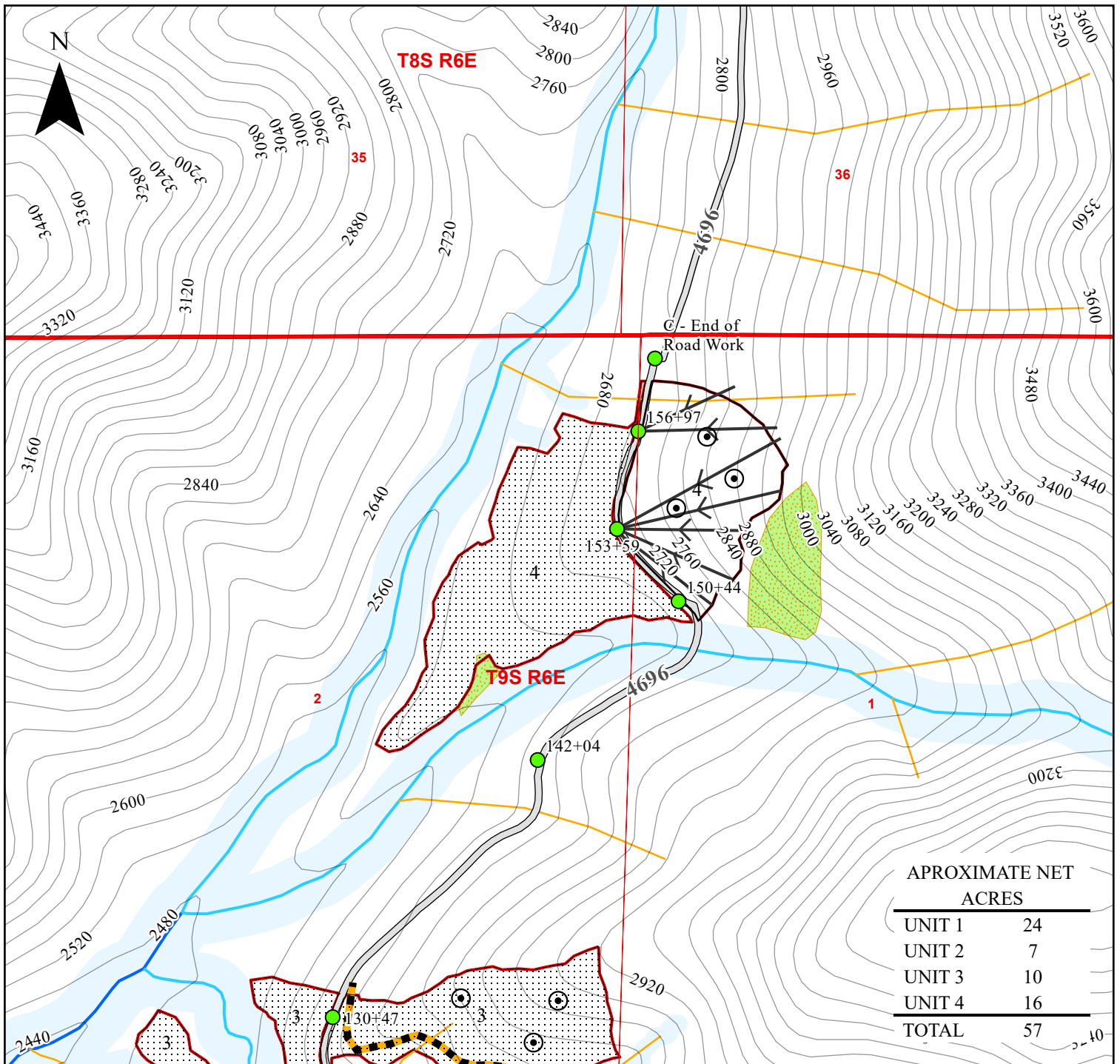
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- Legend
- Timber Sale Boundary
 - No Harvest Buffer
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 - DTR
 - Project Points
 - Y Yarding Corridor
 - Cable
 - Ground
 - USFS Road
 - USFS System Road
 - New Construct Temp Road
 - Stream Class 1
 - Stream Class 2
 - Stream Class 4
 - Contours

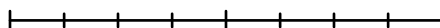
LOGGING PLAN

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0 375 750 1,500 Feet

